

**Flood Control Project Maintenance
Levee Inspections**

Fall 2018 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

ST0003	Overall LMA Rating	Total LMA Miles						
Sutter Maintenance Yard East Levee Sacramento River	A	26.82						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.06		0.06	0.22%				
Trim / Thin Trees	0.01		0.01	0.04%				
Encroachments	0.16		0.16	0.60%	1.91	0.06		
Slope Stability	0.09		0.09	0.34%				
<i>Supplemental</i>								
2017 USACE Erosion Survey, DRAFT	0.40		0.40	1.49%				
DWR UCIP Field Study					0.36	0.05		
DWR UCIP LMA Responsibility								
2017 Storm Damage	0.03		0.03	0.11%				
<i>LMA Totals:</i>	0.75	0.00	0.75	2.80%	2.27	0.11	0.00	0.00

Unit No. 01 Sacramento River LB	Overall Unit Rating	Total Unit Miles						
ST0003	A	19.85						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.03		0.03	0.15%				
Trim / Thin Trees	0.01		0.01	0.05%				
Encroachments	0.16		0.16	0.81%	1.31	0.06		
Slope Stability	0.09		0.09	0.45%				
<i>Supplemental</i>								
2017 USACE Erosion Survey, DRAFT	0.40		0.40	2.02%				
DWR UCIP Field Study					0.35	0.05		
DWR UCIP LMA Responsibility								
2017 Storm Damage	0.03		0.03	0.15%				
<i>Unit Totals:</i>	0.72	0.00	0.72	3.63%	1.66	0.11	0.00	0.00

Unit No. 02 Colusa Bypass RB	Overall Unit Rating	Total Unit Miles						
ST0003	A	2.20						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.01		0.01	0.46%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.01			
<i>Unit Totals:</i>	0.01	0.00	0.01	0.46%	0.01	0.00	0.00	0.00

Unit No. 03 Colusa Bypass LB	Overall Unit Rating	Total Unit Miles						
ST0003	A	2.29						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.02		0.02	0.87%				
<i>Unit Totals:</i>	0.02	0.00	0.02	0.87%	0.00	0.00	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**

Fall 2018 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin (cont.)

Unit No. 04 Moulton Bypass RB	Overall Unit Rating	Total Unit Miles						
ST0003	A	0.30						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
No Items								
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%				

Unit No. 05 Moulton Bypass LB	Overall Unit Rating	Total Unit Miles						
ST0003	A	2.19						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments					0.60			
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%	0.60	0.00	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2018 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			A	

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2018 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento River			Left	19.85
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	4/19/2018 - 4/19/2018		10/10/2018 - 10/10/2018	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Bryan Reniff Sutter Maintenance Yard		Bryan Reniff Sutter Maintenance Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	0.00	Rating **	A	Issue No.	10
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			39.194083 °	39.194083 °
				-121.935512 °	-121.935512 °
DWR ID	DWR_ST0003_01_f_2016_10				
Comment Code					
Inspector Comment					
LMA has O+M manual.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	15
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			39.194083 °	39.194083 °
				-121.935512 °	-121.935512 °
DWR ID	DWR_ST0003_01_f_2016_15				
Comment Code					
Inspector Comment					
LMA has a stockpile of supplies.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	16
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			39.194083 °	39.194083 °
				-121.935512 °	-121.935512 °
DWR ID	DWR_ST0003_01_f_2016_16				
Comment Code					
Inspector Comment					
The LMA attends annual training and maintains emergency response plans.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	0.11	Rating **	M	Issue No.	130
LM End	0.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.195163 °	39.195038 °
				-121.936815 °	-121.937435 °
DWR ID	DWR_ST0003_01_s_2017_130				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Repair the erosion along the waterside slope.					

Photo 1 of 1 : FA_2018_ST0003_264_130_20180905_00030.jpg



View of the erosion along the waterside slope.

LM Start	0.15	Rating **	U	Issue No.	3
LM End	0.20	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.194978 °	39.195022 °
				-121.937502 °	-121.938563 °
DWR ID	DWR_ST0003_01_s_2012_3				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA_2018_ST0003_264_3_20180905_00003.jpg



View of the trailers and building on the waterside.

LM Start	0.24	Rating **	M	Issue No.	82
LM End	0.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.195234 °	39.195234 °
				-121.939124 °	-121.939124 °
DWR ID	DWR_ST0003_01_f_2016_82				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	0.42	Rating **	M	Issue No.	81
LM End	0.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.196483 °	39.196483 °
				-121.942228 °	-121.942228 °
DWR ID	DWR_ST0003_01_f_2016_81				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

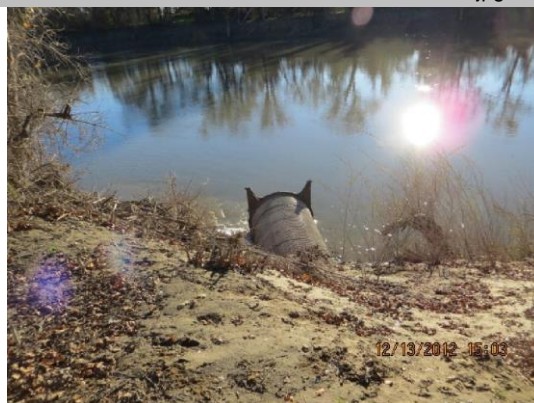
Photo 1 of 1 : FA_2018_ST0003_264_81_20180905_00019.jpg



View of the ruts along the waterside slope.

LM Start	0.51	Rating **	A/W	Issue No.	137	
LM End	0.51	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.197028 °	39.197028 °	
				-121.943597 °	-121.943597 °	
DWR ID	17307					
Comment Code						
Inspector Comment						
FS_ID:51650 DS_ID:17307 EP_NO: 9534 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana) 4/24/2017 Both sides of crossing were underwater during site visit. Will need to revisit after water levels drop. (DWR Sutter Yard-AFreitag) 11/7/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)6/6/2016 Crossing appears to be in good condition.4/6/2015 Good Condition. No issues. Semi circle CMP half riser in inlet structure on LS. Inlet opeing has no trash rack, this may cause safety issue.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection. FIELD_STRUCT_DESC: [Butte Slough Drainage Structure] 78-inch drainage pipe of an unknown material through the levee, 3 feet below the crown. Flap gate on the waterside (WS). Corrugated metal pipe (CMP) half riser (in a semi-circle configuration) in the inlet structure on the landside (LS). (78-inch pipe [HLM 0.44] authorized under Automatic Board Order (ABO) issued as Permit No. 9534, 1974 - Caleta). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 0.44)]. FS Date: 4/26/2017 9:46:51 AM						

Photo 1 of 3 : UCIP_FA_2018_51650_46962.jpg



Waterside view: overview towards CMP sewer pipe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	0.51	Rating **	A/W	Issue No.	137 (cont)	
LM End	0.51	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.197028 °	39.197028 °	
				-121.943597 °	-121.943597 °	
DWR ID	17307					
Comment Code						
Inspector Comment						
FS_ID:51650 DS_ID:17307 EP_NO: 9534 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana) 4/24/2017 Both sides of crossing were underwater during site visit. Will need to revisit after water levels drop. (DWR Sutter Yard-AFreitag)11/7/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)6/6/2016 Crossing appears to be in good condition.4/6/2015 Good Condition. No issues. Semi circle CMP half riser in inlet structure on LS. Inlet opeing has no trash rack, this may cause safety issue.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection. FIELD_STRUCT_DESC: [Butte Slough Drainage Structure] 78-inch drainage pipe of an unknown material through the levee, 3 feet below the crown. Flap gate on the waterside (WS). Corrugated metal pipe (CMP) half riser (in a semi-circle configuration) in the inlet structure on the landside (LS). (78-inch pipe [HLM 0.44] authorized under Automatic Board Order (ABO) issued as Permit No. 9534, 1974 - Caleta). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 0.44)]. FS Date: 4/26/2017 9:46:51 AM						

LM Start	0.51	Rating **	A/W	Issue No.	137 (cont)
LM End	0.51	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2018_51650_46960.jpg



Waterside view: water flowing from CMP sewer pipe

Photo 3 of 3 : UCIP_FA_2018_51650_46961.jpg



Landside view: overview

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	0.54	Rating **	M	Issue No.	9
LM End	0.68	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.197267°	39.198178°
				-121.944232°	-121.946412°
DWR ID	DWR_ST0003_01_s_2017_9				
Comment Code					
DE : Debris					
Inspector Comment					
Remove the debris from the waterside slope.					

Photo 1 of 1 : FA_2018_ST0003_264_9_20180905_00007.jpg



View of the debris along the waterside slope.

LM Start	0.74	Rating **	M	Issue No.	93
LM End	0.74	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.198310 °	39.198310 °
				-121.947463 °	-121.947463 °
DWR ID	DWR_ST0003_01_f _2018_93				
Comment Code					
DE : Debris					
Inspector Comment					
Remove the prunings the landside slope and toe.					

Photo 1 of 1 : FA_2018_ST0003_264_93_20181105_00185.jpg



View of the prunings along the landside slope and toe.

LM Start	1.17	Rating **	M	Issue No.	80
LM End	1.17	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.194126 °	39.194126 °
				-121.953345 °	-121.953345 °
DWR ID	DWR_ST0003_01_f_2016_80				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : FA_2018_ST0003_264_80_20180905_00018.jpg



View of the slope instability along the waterside slope.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	1.17	Rating **	U	Issue No.	138
LM End	1.17	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.194106 °	39.194106 °
				-121.953512 °	-121.953512 °
DWR ID	17319				
Comment Code					
Inspector Comment					
FS_ID:53399 DS_ID:17319 EP_NO: 9527 Repair Type: Urgent Crossing Status: Found UCIP Comments: 8/30/2018 WS vegetation completely overgrown towards walkway and pump so could not inspect. WS pipe end is nearly completely covered in debris, pipe cap appears either open or broken, LS erosion still present, and pipe end completely covered in debris so crossing remains Urgent (D. Sanoski - DWR UCIP).4/24/2017 LS slope damage is still present. No repairs have been made to this crossing yet. (DWR Sutter Yard- AFreitag)11/7/2016 No LS repairs have been made yet. (DWR Sutter Yard- AFreitag)6/6/2016 New flow meter installed on WS. Walkway to access the pump is overgrown with vegetation and not accessible. (DWR Sutter Yard - afreitag) 4/5/2016 Caved-in slope on landside (LS) not yet repaired. Leaky pipe marker gone. Per Bob Duffey (DWR FPIIB inspector), pipe will be replaced by owner next year. If not, will go to CVFPB enforcement. (DWR UCIP - kfazel)4/6/2015 Pipe leaks during times of High water. Slope damage still present. Needs a more detailed inspection to find the leak. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Pipe does not appear to be abandoned. On the WS it appears that a smaller pipe was sleeved into the 18in. Pipe and then the difference capped and welded. Pump was not running at time of inspection but LS ditch near outlet was wet. LS slope damage and leaky pipe marker are still present. (DWR Sutter Yard - afreitag)12/13/2012 Abandoned and plugged/capped steel pipe on WS berm. DWR leaky pipe marker on LS (12-3). Slope failure on LS. Needs capping of LS steel pipe after detailed investigation. (DWR UCIP - pamatya) FIELD_STRUCT_DESC: 18-inch steel irrigation pipe through the levee, 12.5 feet below the crown. Gate valve on the waterside (WS). Vertical pump on the WS bank. Flow meter on the WS. (Automatic Board Order (ABO) issued as Permit No. 9527, 1974 - Butte Creek Farms) [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 1.1)]. FS Date: 8/30/2018 12:42:00 PM					

Photo 1 of 3 : UCIP_FA_2018_53399_46983.jpg



Waterside view: overview

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspections**

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	1.17	Rating **	U	Issue No.	138 (cont)
LM End	1.17	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.194106°	39.194106°
				-121.953512°	-121.953512°
DWR ID	17319				

Comment Code

Inspector Comment

FS_ID:53399
DS_ID:17319
EP_NO: 9527
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 8/30/2018 WS vegetation completely overgrown towards walkway and pump so could not inspect. WS pipe end is nearly completely covered in debris, pipe cap appears either open or broken, LS erosion still present, and pipe end completely covered in debris so crossing remains Urgent (D. Sanoski - DWR UCIP).4/24/2017 LS slope damage is still present. No repairs have been made to this crossing yet. (DWR Sutter Yard- AFreitag)11/7/2016 No LS repairs have been made yet. (DWR Sutter Yard- AFreitag)6/6/2016 New flow meter installed on WS. Walkway to access the pump is overgrown with vegetation and not accessible. (DWR Sutter Yard - afreitag) 4/5/2016 Caved-in slope on landside (LS) not yet repaired. Leaky pipe marker gone. Per Bob Duffey (DWR FPIIB inspector), pipe will be replaced by owner next year. If not, will go to CVFPB enforcement. (DWR UCIP - kfazel)4/6/2015 Pipe leaks during times of High water. Slope damage still present. Needs a more detailed inspection to find the leak. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Pipe does not appear to be abandoned. On the WS it appears that a smaller pipe was sleeved into the 18in. Pipe and then the difference capped and welded. Pump was not running at time of inspection but LS ditch near outlet was wet. LS slope damage and leaky pipe marker are still present. (DWR Sutter Yard - afreitag)12/13/2012 Abandoned and plugged/capped steel pipe on WS berm. DWR leaky pipe marker on LS (12-3). Slope failure on LS. Needs capping of LS steel pipe after detailed investigation. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 18-inch steel irrigation pipe through the levee, 12.5 feet below the crown. Gate valve on the waterside (WS). Vertical pump on the WS bank. Flow meter on the WS. (Automatic Board Order (ABO) issued as Permit No. 9527, 1974 - Butte Creek Farms)
[Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 1.1)].
FS Date: 8/30/2018 12:42:00 PM

Photo 2 of 3 : UCIP_FA_2018_53399_46981.jpg



Waterside view: CMP riser with slide gate

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	1.17	Rating **	U	Issue No.	138 (cont)
LM End	1.17	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.194106°	39.194106°
				-121.953512°	-121.953512°
DWR ID	17319				

Comment Code

Inspector Comment

FS_ID:53399

DS_ID:17319

EP_NO: 9527

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 8/30/2018 WS vegetation completely overgrown towards walkway and pump so could not inspect. WS pipe end is nearly completely covered in debris, pipe cap appears either open or broken, LS erosion still present, and pipe end completely covered in debris so crossing remains Urgent (D. Sanoski - DWR UCIP). 4/24/2017 LS slope damage is still present. No repairs have been made to this crossing yet. (DWR Sutter Yard- AFreitag) 11/7/2016 No LS repairs have been made yet. (DWR Sutter Yard- AFreitag) 6/6/2016 New flow meter installed on WS. Walkway to access the pump is overgrown with vegetation and not accessible. (DWR Sutter Yard - afreitag) 4/5/2016 Caved-in slope on landside (LS) not yet repaired. Leaky pipe marker gone. Per Bob Duffey (DWR FPIIB inspector), pipe will be replaced by owner next year. If not, will go to CVFPB enforcement. (DWR UCIP - kfazel) 4/6/2015 Pipe leaks during times of High water. Slope damage still present. Needs a more detailed inspection to find the leak. (DWR Sutter Yard - afreitag) 6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag) 12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag) 7/29/2013 Pipe does not appear to be abandoned. On the WS it appears that a smaller pipe was sleeved into the 18in. Pipe and then the difference capped and welded. Pump was not running at time of inspection but LS ditch near outlet was wet. LS slope damage and leaky pipe marker are still present. (DWR Sutter Yard - afreitag) 12/13/2012 Abandoned and plugged/capped steel pipe on WS berm. DWR leaky pipe marker on LS (12-3). Slope failure on LS. Needs capping of LS steel pipe after detailed investigation. (DWR UCIP - pamatya)

FIELD_STRUCT_DESC: 18-inch steel irrigation pipe through the levee, 12.5 feet below the crown. Gate valve on the waterside (WS). Vertical pump on the WS bank. Flow meter on the WS. (Automatic Board Order (ABO) issued as Permit No. 9527, 1974 - Butte Creek Farms)

[Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 1.1)].

FS Date: 8/30/2018 12:42:00 PM

Photo 3 of 3 : UCIP_FA_2018_53399_46980.jpg



Waterside view: inside CMP riser

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	1.44	Rating **	U	Issue No.	139
LM End	1.44	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.192502 °	39.192502 °
				-121.958062 °	-121.958062 °
DWR ID	17320				

Comment Code

Inspector Comment

FS_ID:53400
DS_ID:17320
EP_NO: 9543
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 8/30/2018 WS vegetation too thick to clearly inspect WS pipe so assume same condition as last inspections so crossing remains Urgent due to pipe integrity. WS levee slope looks good. No signs of levee threat to the road crown. LS headwall looks in good condition (D. Sanoski - DWR UCIP).4/24/2017 WS was underwater during the site visit but I do not believe that any repairs have been made to this crossing yet. (DWR Sutter Yard- A Freitag)11/7/2016 No repairs have been made here yet. (DWR Sutter Yard- A Freitag)6/17/2016 River levels were down and the WS pipe end was exposed. WS end is completely rotten and damaged and flap gate has fallen off the end of the pipe (see pics). Pipe needs to be replaced or repaired. (DWR Sutter Yard - a Freitag)4/5/2016 Erosion on WS slope still present. Pipe still fully submerged on WS and discharging into river during site visit. (DWR UCIP - kfazel)4/6/2015 Pipe leaks during high water. DWR employee said he suspects that the flap gate has rotted and fallen off WS end of pipe. Could not locate WS end of pipe to confirm. Water was flowing through this drain during field survey. (DWR Sutter Yard - a Freitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - a Freitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - a Freitag) 12/13/2012 Water was flowing through this drain during field survey. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe (at 45 degrees) through the levee, 25.2 feet below the crown. Flap gate on the waterside (WS), not found in 2016. (30-inch pipe [HLM 1.38] authorized under Automatic Board Order (ABO) issued as Permit No. 9543, 1974 - Harada). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, revision March 1960 (HLM 1.38)]
FS Date: 8/30/2018 1:02:00 PM

Photo 1 of 3 : UCIP_FA_2018_53400_46992.jpg



Waterside view: overview of river bank

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	1.44	Rating **	U	Issue No.	139 (cont)
LM End	1.44	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.192502 °	39.192502 °
				-121.958062 °	-121.958062 °
DWR ID	17320				

Comment Code

Inspector Comment

FS_ID:53400

DS_ID:17320

EP_NO: 9543

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 8/30/2018 WS vegetation too thick to clearly inspect WS pipe so assume same condition as last inspections so crossing remains Urgent due to pipe integrity. WS levee slope looks good. No signs of levee threat to the road crown. LS headwall looks in good condition (D. Sanoski - DWR UCIP).4/24/2017 WS was underwater during the site visit but I do not believe that any repairs have been made to this crossing yet. (DWR Sutter Yard- A Freitag)11/7/2016 No repairs have been made here yet. (DWR Sutter Yard- A Freitag)6/17/2016 River levels were down and the WS pipe end was exposed. WS end is completely rotten and damaged and flap gate has fallen off the end of the pipe (see pics). Pipe needs to be replaced or repaired. (DWR Sutter Yard - a Freitag)4/5/2016 Erosion on WS slope still present. Pipe still fully submerged on WS and discharging into river during site visit. (DWR UCIP - kfazel)4/6/2015 Pipe leaks during high water. DWR employee said he suspects that the flap gate has rotted and fallen off WS end of pipe. Could not locate WS end of pipe to confirm. Water was flowing through this drain during field survey. (DWR Sutter Yard - a Freitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - a Freitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - a Freitag) 12/13/2012 Water was flowing through this drain during field survey. (DWR UCIP - pamatya)

FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe (at 45 degrees) through the levee, 25.2 feet below the crown. Flap gate on the waterside (WS), not found in 2016. (30-inch pipe [HLM 1.38] authorized under Automatic Board Order (ABO) issued as Permit No. 9543, 1974 - Harada). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, revision March 1960 (HLM 1.38)]

FS Date: 8/30/2018 1:02:00 PM

Photo 2 of 3 : UCIP_FA_2018_53400_46991.jpg



Waterside view: water flowing from outlet pipe (pipe fully submerge)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	1.44	Rating **	U	Issue No.	139 (cont)
LM End	1.44	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.192502 °	39.192502 °
				-121.958062 °	-121.958062 °
DWR ID	17320				

Comment Code

Inspector Comment

FS_ID:53400

DS_ID:17320

EP_NO: 9543

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 8/30/2018 WS vegetation too thick to clearly inspect WS pipe so assume same condition as last inspections so crossing remains Urgent due to pipe integrity. WS levee slope looks good. No signs of levee threat to the road crown. LS headwall looks in good condition (D. Sanoski - DWR UCIP).4/24/2017 WS was underwater during the site visit but I do not believe that any repairs have been made to this crossing yet. (DWR Sutter Yard- AFreitag)11/7/2016 No repairs have been made here yet. (DWR Sutter Yard- AFreitag)6/17/2016 River levels were down and the WS pipe end was exposed. WS end is completely rotten and damaged and flap gate has fallen off the end of the pipe (see pics). Pipe needs to be replaced or repaired. (DWR Sutter Yard - afreitag)4/5/2016 Erosion on WS slope still present. Pipe still fully submerged on WS and discharging into river during site visit. (DWR UCIP - kfazel)4/6/2015 Pipe leaks during high water. DWR employee said he suspects that the flap gate has rotted and fallen off WS end of pipe. Could not locate WS end of pipe to confirm. Water was flowing through this drain during field survey. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag) 12/13/2012 Water was flowing through this drain during field survey. (DWR UCIP - pamatya)

FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe (at 45 degrees) through the levee, 25.2 feet below the crown. Flap gate on the waterside (WS), not found in 2016. (30-inch pipe [HLM 1.38] authorized under Automatic Board Order (ABO) issued as Permit No. 9543, 1974 - Harada). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, revision March 1960 (HLM 1.38)]

FS Date: 8/30/2018 1:02:00 PM

Photo 3 of 3 : UCIP_FA_2018_53400_46990.jpg



Landside view: overview of levee slope

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	1.91	Rating **	M	Issue No.	140
LM End	1.91	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.188180 °	39.188180 °
				-121.964688 °	-121.964688 °
DWR ID	17322				
Comment Code					
Inspector Comment					
FS_ID:51656 DS_ID:17322 EP_NO: 9258 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/24/2017 WS riser was still full of soil. Open 10" pipe on the WS bank was underwater during time of site visit. (DWR Sutter Yard- A Freitag)11/7/2016 WS riser still full of soil. No pump present and 10" pipe left opened on the WS. (DWR Sutter Yard- A Freitag)6/17/2016 Same as last inspection. 4/6/2015 CMP riser filled with silt/soil on WS. No other issues present.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection. FIELD_STRUCT_DESC: 10-inch asphalt coated steel irrigation pipe through the levee, 3.7 feet below the crown. Pump installed on the waterside (WS). (Permit No. 9258, 1974 - Harada). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/26/2017 10:15:33 AM					

LM Start	1.91	Rating **	M	Issue No.	140 (cont)
LM End	1.91	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_51656_46998.jpg



Waterside view: overview

Photo 2 of 3 : UCIP_FA_2018_51656_46997.jpg



Waterside view: overview of CMP riser

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	1.91	Rating **	M	Issue No.	140 (cont)	
LM End	1.91	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.188180°	39.188180°	
				-121.964688°	-121.964688°	
DWR ID	17322					
Comment Code						
Inspector Comment						
FS_ID:51656 DS_ID:17322 EP_NO: 9258 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/24/2017 WS riser was still full of soil. Open 10" pipe on the WS bank was underwater during time of site visit. (DWR Sutter Yard- A Freitag)11/7/2016 WS riser still full of soil. No pump present and 10" pipe left opened on the WS. (DWR Sutter Yard- A Freitag)6/17/2016 Same as last inspection. 4/6/2015 CMP riser filled with silt/soil on WS. No other issues present.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection. FIELD_STRUCT_DESC: 10-inch asphalt coated steel irrigation pipe through the levee, 3.7 feet below the crown. Pump installed on the waterside (WS). (Permit No. 9258, 1974 - Harada). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/26/2017 10:15:33 AM						

Photo 3 of 3 : UCIP_FA_2018_51656_46996.jpg



Waterside view: CMP riser

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	1.91	Rating **	M	Issue No.	141
LM End	1.91	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.188164 °	39.188164 °
				-121.964721 °	-121.964721 °
DWR ID	17321				

Comment Code

Inspector Comment

FS_ID:52947
DS_ID:17321
EP_NO: 9543
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 8/30/2018 BRAND-NEW pipe and pump structure installed at this location. Pump in operation at time of inspection and no leaks were visible. Downgraded to Non-Urgent; will be further downgraded to No Action Needed when paperwork compliance with CVFPB is confirmed (D. Sanoski - DWR UCIP).4/24/2017
Abandoned and needs to be done so properly. Vegetation was to thick on the LS slope to see and sloughing or slope damage. (DWR Sutter Yard- AFreitag)11/7/2016 Abandoned. (DWR Sutter Yard- AFreitag)6/17/2016 Abandoned crossing. (DWR Sutter Yard - afreitag)4/5/2016 Appears abandoned and should be done so properly. LS levee slope has a slight but sudden drop (could be due to improper compaction). Dense vegetation on LS prevented visibility of sloughing or other damage to levee. Could not locate leaky pipe marker. Per Bryan Reniff of Sutter Yard, marker was previously installed due to a high water event, not leaky pipe. Appears repair work to levee performed but unclear of extent. Gate valve on WS is bent and damaged, appears abandoned. Crossing a good candidate for video inspection. (DWR UCIP - kfazel)4/6/2015 Sloughing LS slope and river bank. DWR marking for leaky pipe. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/13/2012 Sloughing LS slope and river bank. DWR marking for leaky pipe. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: BRAND-NEW: 14-inch concrete encased steel irrigation pipe through the levee, 12.5 feet below the crown. Slant pump mounted on a pile structure on the waterside (WS) berm. Slide gate in a 48-inch riser on the WS berm with a walkway to the pump. Pipe discharges into a concrete distribution box at the landside (LS) toe. Flap gate on the LS end. Electrical conduit mounted to power poles on the LS and WS for service to the pump on the WS. Electrical conduits may partially penetrate both embankments. (Automatic Board Order (ABO) issued as Permit No. 9543, 1974 - Harada). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 1.84)].
FS Date: 8/30/2018 1:19:57 PM

Photo 1 of 3 : UCIP_FA_2018_52947_47004.jpg



Waterside view: pipe @river bank

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	1.91	Rating **	M	Issue No.	141 (cont)	
LM End	1.91	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.188164 °	39.188164 °	
				-121.964721 °	-121.964721 °	
DWR ID	17321					
Comment Code						
Inspector Comment						

FS_ID:52947
DS_ID:17321
EP_NO: 9543
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 8/30/2018 BRAND-NEW pipe and pump structure installed at this location. Pump in operation at time of inspection and no leaks were visible. Downgraded to Non-Urgent; will be further downgraded to No Action Needed when paperwork compliance with CVFPB is confirmed (D. Sanoski - DWR UCIP).4/24/2017
Abandoned and needs to be done so properly. Vegetation was to thick on the LS slope to see and sloughing or slope damage. (DWR Sutter Yard- AFreitag)11/7/2016 Abandoned. (DWR Sutter Yard- AFreitag)6/17/2016 Abandoned crossing. (DWR Sutter Yard - afreitag)4/5/2016 Appears abandoned and should be done so properly. LS levee slope has a slight but sudden drop (could be due to improper compaction). Dense vegetation on LS prevented visibility of sloughing or other damage to levee. Could not locate leaky pipe marker. Per Bryan Reniff of Sutter Yard, marker was previously installed due to a high water event, not leaky pipe. Appears repair work to levee performed but unclear of extent. Gate valve on WS is bent and damaged, appears abandoned. Crossing a good candidate for video inspection. (DWR UCIP - kfazel)4/6/2015 Sloughing LS slope and river bank. DWR marking for leaky pipe. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/13/2012 Sloughing LS slope and river bank. DWR marking for leaky pipe. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: BRAND-NEW: 14-inch concrete encased steel irrigation pipe through the levee, 12.5 feet below the crown. Slant pump mounted on a pile structure on the waterside (WS) berm. Slide gate in a 48-inch riser on the WS berm with a walkway to the pump. Pipe discharges into a concrete distribution box at the landside (LS) toe. Flap gate on the LS end. Electrical conduit mounted to power poles on the LS and WS for service to the pump on the WS. Electrical conduits may partially penetrate both embankments. (Automatic Board Order (ABO) issued as Permit No. 9543, 1974 - Harada). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 1.84)].
FS Date: 8/30/2018 1:19:57 PM

Photo 2 of 3 : UCIP_FA_2018_52947_47003.jpg



Waterside view: abandoned pump station.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	1.91	Rating **	M	Issue No.	141 (cont)
LM End	1.91	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.188164 °	39.188164 °
				-121.964721 °	-121.964721 °
DWR ID	17321				

Comment Code

Inspector Comment

FS_ID:52947
DS_ID:17321
EP_NO: 9543
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 8/30/2018 BRAND-NEW pipe and pump structure installed at this location. Pump in operation at time of inspection and no leaks were visible. Downgraded to Non-Urgent; will be further downgraded to No Action Needed when paperwork compliance with CVFPB is confirmed (D. Sanoski - DWR UCIP).4/24/2017
Abandoned and needs to be done so properly. Vegetation was to thick on the LS slope to see and sloughing or slope damage. (DWR Sutter Yard- AFreitag)11/7/2016 Abandoned. (DWR Sutter Yard- AFreitag)6/17/2016 Abandoned crossing. (DWR Sutter Yard - afreitag)4/5/2016 Appears abandoned and should be done so properly. LS levee slope has a slight but sudden drop (could be due to improper compaction). Dense vegetation on LS prevented visibility of sloughing or other damage to levee. Could not locate leaky pipe marker. Per Bryan Reniff of Sutter Yard, marker was previously installed due to a high water event, not leaky pipe. Appears repair work to levee performed but unclear of extent. Gate valve on WS is bent and damaged, appears abandoned. Crossing a good candidate for video inspection. (DWR UCIP - kfazel)4/6/2015 Sloughing LS slope and river bank. DWR marking for leaky pipe. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/13/2012 Sloughing LS slope and river bank. DWR marking for leaky pipe. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: BRAND-NEW: 14-inch concrete encased steel irrigation pipe through the levee, 12.5 feet below the crown. Slant pump mounted on a pile structure on the waterside (WS) berm. Slide gate in a 48-inch riser on the WS berm with a walkway to the pump. Pipe discharges into a concrete distribution box at the landside (LS) toe. Flap gate on the LS end. Electrical conduit mounted to power poles on the LS and WS for service to the pump on the WS. Electrical conduits may partially penetrate both embankments. (Automatic Board Order (ABO) issued as Permit No. 9543, 1974 - Harada). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 1.84)].
FS Date: 8/30/2018 1:19:57 PM

Photo 3 of 3 : UCIP_FA_2018_52947_47002.jpg



Waterside view: abandoned pump station close-up.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	2.08	Rating **	M	Issue No.	142
LM End	2.08	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.187717 °	39.187717 °
				-121.967712 °	-121.967712 °
DWR ID	17305				
Comment Code					
Inspector Comment					
FS_ID:51658 DS_ID:17305 EP_NO: 9541 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/24/2017 Abandoned and needs to be done so properly. (DWR Sutter Yard- AFreitag)11/7/2016 Abandoned. (DWR Sutter Yard- AFreitag)6/6/2016 Abandoned crossing. Should be properly abandoned.4/6/2015 Same as last inspection. CMP standpipe with gate valve. Abandoned pump house. Pipe discharges into open ditch at landward toe- not found.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED* 24-inch irrigation pipe of an unknown material through the levee, 13.5 feet below the crown. Pump in a metal house on the WS (waterside) berm. Slide gate in a corrugated metal pipe riser on the WS slope. Service pole and guy wire anchor on the WS slope. (Automatic Board Order (ABO) issued as Permit No. 9541, 1974 - Wilbur, McGowan, Zinke). [Additional Reference(s): DWR Levee Logs, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 2.01)]. FS Date: 4/26/2017 10:40:26 AM					

LM Start	2.08	Rating **	M	Issue No.	142 (cont)
LM End	2.08	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_51658_47013.jpg



Waterside view: overview

Photo 2 of 3 : UCIP_FA_2018_51658_47011.jpg



Waterside view: overview of pipe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	2.08	Rating **	M	Issue No.	142 (cont)							
LM End	2.08	Issue Type +	En	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	DWR UCIP Field Study		39.187717°	39.187717°								
			-121.967712°	-121.967712°								
DWR ID	17305											
Comment Code												
Inspector Comment												
FS_ID:51658 DS_ID:17305 EP_NO: 9541 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/24/2017 Abandoned and needs to be done so properly. (DWR Sutter Yard- A Freitag) 11/7/2016 Abandoned. (DWR Sutter Yard- A Freitag) 6/6/2016 Abandoned crossing. Should be properly abandoned. 4/6/2015 Same as last inspection. CMP standpipe with gate valve. Abandoned pump house. Pipe discharges into open ditch at landward toe- not found. 6/30/2014 Same as last inspection. 12/30/2013 Same as last inspection. 7/29/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED* 24-inch irrigation pipe of an unknown material through the levee, 13.5 feet below the crown. Pump in a metal house on the WS (waterside) berm. Slide gate in a corrugated metal pipe riser on the WS slope. Service pole and guy wire anchor on the WS slope. (Automatic Board Order (ABO) issued as Permit No. 9541, 1974 - Wilbur, McGowan, Zinke). [Additional Reference(s): DWR Levee Logs, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 2.01)]. FS Date: 4/26/2017 10:40:26 AM												

Photo 3 of 3 : UCIP_FA_2018_51658_47012.jpg



Waterside view: abandoned pump house

LM Start	2.45	Rating **	M	Issue No.	86							
LM End	2.46	Issue Type +	Ma	Location *	LS							
Category	Earthen Levee		GPS Latitude/Longitude									
			Start	End								
Item	Trim / Thin Trees		39.187911°	39.187955°								
			-121.974591°	-121.974693°								
DWR ID	DWR_ST0003_01_f_2016_86											
Comment Code												
T1 : Trim trees to at least five feet above ground level.												
Inspector Comment												

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	2.56	Rating **	M	Issue No.	143	
LM End	2.56	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.188768 °	39.188768 °	
				-121.976305 °	-121.976305 °	
DWR ID	17309					
Comment Code						
Inspector Comment						
FS_ID:51660 DS_ID:17309 EP_NO: 9541 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/24/2017 Still no sign of WS pipe end or flapgate. LS appears to be in good condition. (DWR Sutter Yard- AFreitag) 11/7/2016 LS culvert measured to be 30"wide X 30"tall. WS end is not visible so could not be measured. (DWR Sutter Yard- AFreitag)6/6/2016 Cannot locate the WS headwall/flapgate. Appears to have been silted over.4/6/2015 Same as last inspection. Concrete surg box on WS. Flap gate in concrete "U" headwall at the waterward end- not found.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection. FIELD_STRUCT_DESC: 30-inch reinforced concrete box drainage culvert through the levee, 14.3 feet below the crown. 30-inch corrugated metal pipe connects concrete culvert from slide gate out to flap gate on the waterside (WS) end. Slide gate in a concrete riser on the waterside (WS) slope. (30-inch pipe [HLM 2.49] authorized under Automatic Board Order (ABO) issued as Permit No. 9541, 1974 - Wilbur, McGowan, Zinke). [Additional Reference(s): DWR Levee Logs, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 2.49)]. FS Date: 4/26/2017 10:46:22 AM						

LM Start	2.56	Rating **	M	Issue No.	143 (cont)
LM End	2.56	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_51660_47027.jpg



Waterside view: overview- concrete surg tank

Photo 2 of 3 : UCIP_FA_2018_51660_47026.jpg



Waterside view: overview- concrete surg tank

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	2.56	Rating **	M	Issue No.	143 (cont)
LM End	2.56	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.188768 °	39.188768 °
				-121.976305 °	-121.976305 °
DWR ID	17309				
Comment Code					
Inspector Comment					
FS_ID:51660 DS_ID:17309 EP_NO: 9541 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/24/2017 Still no sign of WS pipe end or flapgate. LS appears to be in good condition. (DWR Sutter Yard- AFreitag) 11/7/2016 LS culvert measured to be 30"wide X 30"tall. WS end is not vidible so could not be measured. (DWR Sutter Yard- AFreitag)6/6/2016 Cannot locate the WS headwall/flapgate. Appears to have been silted over.4/6/2015 Same as last inspection. Concrete surg box on WS. Flap gate in concrete "U" headwall at the waterward end- not found.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection. FIELD_STRUCT_DESC: 30-inch reinforced concrete box drainage culvert through the levee, 14.3 feet below the crown. 30-inch corrugated metal pipe connects concrete culvert from slide gate out to flap gate on the waterside (WS) end. Slide gate in a concrete riser on the waterside (WS) slope. (30-inch pipe [HLM 2.49] authorized under Automatic Board Order (ABO) issued as Permit No. 9541, 1974 - Wilbur, McGowan, Zinke). [Additional Reference(s): DWR Levee Logs, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 2.49)]. FS Date: 4/26/2017 10:46:22 AM					

Photo 3 of 3 : UCIP_FA_2018_51660_47025.jpg



Waterside view: slide gate inside concrete surg tank

LM Start	2.84	Rating **	M	Issue No.	104
LM End	2.84	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.191162 °	39.191162 °
				-121.980365 °	-121.980365 °
DWR ID	DWR_ST0003_01_s_2018_104				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Repair the erosion along the water side slope caused by vehicle traffic.					

Photo 1 of 1 : FA_2018_ST0003_264_104_20180905_00024.jpg



View of the erosion along the waterside slope caused by vehicle traffic.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	3.32	Rating **	U	Issue No.	144
LM End	3.32	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.196865 °	39.196865 °
				-121.985280 °	-121.985280 °
DWR ID	17311				

Comment Code

Inspector Comment

FS_ID:52949

DS_ID:17311

EP_NO: N/A

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 8/30/2018 Pipe found; at a different Lat/Long than is listed, however. Revised Lat/Long is (39.196865, -121.985280; CLM 3.32). WS pipe end is visible and has a functioning slide gate; LS pipe end is exposed with no closure device or headwall. Keeping as Urgent because the LS pipe discharges into a hole and could pose a threat to the levee prism during a high water event. There are also cracks on the crown that could be related to the pipe beneath. Recommend an internal pipe inspection to be sure of the levee integrity (D.Sanoski - DWR UCIP).4/6/2017 Pipe was found in January 2017 during a high water event when water uncovered the buried WS end which led to uncontrolled water flow through during the high water event. The WS pipe opening was temporarily blocked off by plywood and sandbags until the pipe can be properly plugged or abandoned. Pics updated. (DWR Sutter Yard- Afreitag)11/7/2016 Unable to locate. (DWR Sutter Yard- AFreitag)6/6/2016 Unable to locate.4/6/2015 Unable to locate.6/30/2014 Unable to locate.12/30/2013 Unable to locate.7/29/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12.4 feet below the crown. Slide gate on the waterside (WS) end. (Automatic Board Order (ABO) issued as Permit No. 9539, 1974 - Locvich). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 3.25)]. FS Date: 8/30/2018 1:45:35 PM

Photo 1 of 3 : UCIP_FA_2018_52949_76919.jpg



LS view of water exiting the pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	3.32	Rating **	U	Issue No.	144 (cont)	
LM End	3.32	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.196865 °	39.196865 °	
				-121.985280 °	-121.985280 °	
DWR ID	17311					
Comment Code						
Inspector Comment						
FS_ID:52949 DS_ID:17311 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 8/30/2018 Pipe found; at a different Lat/Long than is listed, however. Revised Lat/Long is (39.196865, -121.985280; CLM 3.32). WS pipe end is visible and has a functioning slide gate; LS pipe end is exposed with no closure device or headwall. Keeping as Urgent because the LS pipe discharges into a hole and could pose a threat to the levee prism during a high water event. There are also cracks on the crown that could be related to the pipe beneath. Recommend an internal pipe inspection to be sure of the levee integrity (D.Sanoski - DWR UCIP).4/6/2017 Pipe was found in January 2017 during a high water event when water uncovered the buried WS end which led to uncontrolled water flow through during the high water event. The WS pipe opening was temporarily blocked off by plywood and sandbags until the pipe can be properly plugged or abandoned. Pics updated. (DWR Sutter Yard- Afreitag)11/7/2016 Unable to locate. (DWR Sutter Yard- AFreitag)6/6/2016 Unable to locate.4/6/2015 Unable to locate.6/30/2014 Unable to locate.12/30/2013 Unable to locate.7/29/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12.4 feet below the crown. Slide gate on the waterside (WS) end. (Automatic Board Order (ABO) issued as Permit No. 9539, 1974 - Locvich). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 3.25)]. FS Date: 8/30/2018 1:45:35 PM						

Photo 2 of 3 : UCIP_FA_2018_52949_76920.jpg



LS view from levee shoulder

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	3.32	Rating **	U	Issue No.	144 (cont)
LM End	3.32	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.196865 °	39.196865 °
				-121.985280 °	-121.985280 °
DWR ID	17311				

Comment Code

Inspector Comment

FS_ID:52949

DS_ID:17311

EP_NO: N/A

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 8/30/2018 Pipe found; at a different Lat/Long than is listed, however. Revised Lat/Long is (39.196865, -121.985280; CLM 3.32). WS pipe end is visible and has a functioning slide gate; LS pipe end is exposed with no closure device or headwall. Keeping as Urgent because the LS pipe discharges into a hole and could pose a threat to the levee prism during a high water event. There are also cracks on the crown that could be related to the pipe beneath. Recommend an internal pipe inspection to be sure of the levee integrity (D.Sanoski - DWR UCIP).4/6/2017 Pipe was found in January 2017 during a high water event when water uncovered the buried WS end which led to uncontrolled water flow through during the high water event. The WS pipe opening was temporarily blocked off by plywood and sandbags until the pipe can be properly plugged or abandoned. Pics updated. (DWR Sutter Yard- Afreitag)11/7/2016 Unable to locate. (DWR Sutter Yard- Afreitag)6/6/2016 Unable to locate.4/6/2015 Unable to locate.6/30/2014 Unable to locate.12/30/2013 Unable to locate.7/29/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12.4 feet below the crown. Slide gate on the waterside (WS) end. (Automatic Board Order (ABO) issued as Permit No. 9539, 1974 - Locvich). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 3.25)]. FS Date: 8/30/2018 1:45:35 PM

Photo 3 of 3 : UCIP_FA_2018_52949_76921.jpg



WS view of the temporary plug on WS end.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	3.41	Rating **	U	Issue No.	145 (cont)
LM End	3.41	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.198180°	39.198180°
				-121.985557°	-121.985557°
DWR ID	17312				

Comment Code

Inspector Comment

FS_ID:53401

DS_ID:17312

EP_NO: 9539

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 8/30/2018 Same as last inspection. Recommend internal pipe inspection to verify pipe integrity and levee integrity so crossing remains Urgent (D. Sanoski - DWR UCIP).4/24/2017 Pipe leaked during the Jan/Feb 2017 high water event. Gap between the top of the WS headwall and concrete plug plus the WS airvents going underwater are the cause of the uncontrolled water flows. (DWR Sutter Yard- AFreitag)11/7/2016 Nothing has changed with this crossing since the last inspection. The gap between the top of the WS headwall and concrete plug could be a problem with water flow during high water times. (DWR Sutter Yard- AFreitag)6/6/2016 One of the pipes appear to be leaking inside of the concrete culvert. From the WS headwall water can be heard flowing inside of the levee behind the concrete plug. The concrete plug also appears to leak as water current can be seen flowing around it. There is also a 1" gap at the top of the plug and the old WS headwall that will allow high water to flow through uncontrolled. (DWR Sutter Yard - afreitag)4/6/2015 6-inch and 18-inch pipes still present in crossing and WS end still plugged with concrete. It seems that the system was originally designed for drainage but later converted into an irrigation system. 6-inch GI pipe and 18-inch PVC pipes inserted into culvert from LS (not plugged). WS opening is plugged with concrete. Probably pump is located 350 ft from levee as seen from Google Earth Map. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag) FIELD_STRUCT_DESC: 30-inch by 36-inch reinforced concrete box drainage and irrigation culvert through the levee, invert 13.6 feet below the crown. Gates with 2-inch flashboards on the waterside (WS) end. 6-inch and 18-inch polyvinyl chloride (PVC) pipes through the culvert on the landside (LS). Culvert designed for drainage but now used for irrigation. (Automatic Board Order (ABO) issued as Permit No. 9539, 1974 - Locvich). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 3.33)]. FS Date: 8/30/2018 10:18:00 AM

Photo 2 of 3 : UCIP_FA_2018_53401_47046.jpg



Landside view: overview- concrete culvert and pipes

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	3.41	Rating **	U	Issue No.	145 (cont)
LM End	3.41	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.198180°	39.198180°
				-121.985557°	-121.985557°
DWR ID	17312				

Comment Code

Inspector Comment

FS_ID:53401

DS_ID:17312

EP_NO: 9539

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 8/30/2018 Same as last inspection. Recommend internal pipe inspection to verify pipe integrity and levee integrity so crossing remains Urgent (D. Sanoski - DWR UCIP).4/24/2017 Pipe leaked during the Jan/Feb 2017 high water event. Gap between the top of the WS headwall and concrete plug plus the WS airvents going underwater are the cause of the uncontrolled water flows. (DWR Sutter Yard- AFreitag)11/7/2016 Nothing has changed with this crossing since the last inspection. The gap between the top of the WS headwall and concrete plug could be a problem with water flow during high water times. (DWR Sutter Yard- AFreitag)6/6/2016 One of the pipes appear to be leaking inside of the concrete culvert. From the WS headwall water can be heard flowing inside of the levee behind the concrete plug. The concrete plug also appears to leak as water current can be seen flowing around it. There is also a 1" gap at the top of the plug and the old WS headwall that will allow high water to flow through uncontrolled. (DWR Sutter Yard - afreitag)4/6/2015 6-inch and 18-inch pipes still present in crossing and WS end still plugged with concrete. It seems that the system was originally designed for drainage but later converted into an irrigation system. 6-inch GI pipe and 18-inch PVC pipes inserted into culvert from LS (not plugged). WS opening is plugged with concrete. Probably pump is located 350 ft from levee as seen from Google Earth Map. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)

FIELD_STRUCT_DESC: 30-inch by 36-inch reinforced concrete box drainage and irrigation culvert through the levee, invert 13.6 feet below the crown. Gates with 2-inch flashboards on the waterside (WS) end. 6-inch and 18-inch polyvinyl chloride (PVC) pipes through the culvert on the landside (LS). Culvert designed for drainage but now used for irrigation. (Automatic Board Order (ABO) issued as Permit No. 9539, 1974 - Locvich). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 3.33)].

FS Date: 8/30/2018 10:18:00 AM

Photo 3 of 3 : UCIP_FA_2018_53401_47047.jpg



Landside view: overview of concrete culvert and pipes

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	3.54	Rating **	M	Issue No.	11
LM End	3.81	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.200007 °	39.203634 °
				-121.985257 °	-121.982977 °
DWR ID	DWR_ST0003_01_f_2016_11				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA_2018_ST0003_264_11_20180905_00008.jpg



View of a trailer next to the waterside toe.

LM Start	3.68	Rating **	M	Issue No.	146
LM End	3.68	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.201831 °	39.201831 °
				-121.984006 °	-121.984006 °
DWR ID	17313				
Comment Code					
Inspector Comment					
FS_ID:51666 DS_ID:17313 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/24/2017 Slide gate structure found on WS about 10ft from levee toe. Vegetation was too thick to see if there were any more appurtances associated with this crossing visible on the WS. Nothing was visible on the LS. House located above pipe alignment at LS levee toe. Crossing appears abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)11/7/2016 Unable to locate. (DWR Sutter Yard- AFreitag)6/6/2016 Unable to locate.4/6/2015 Unable to locate.6/30/2014 Unable to locate.12/30/2013 Unable to locate7/29/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: *ABANDONED* 18-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Slide gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 3.6)]. FS Date: 4/26/2017 12:11:41 PM					

Photo 1 of 2 : UCIP_FA_2018_51666_77004.jpg



Slide gate structure found on WS

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	3.68	Rating **	M	Issue No.	146 (cont)
LM End	3.68	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.201831 °	39.201831 °
				-121.984006 °	-121.984006 °
DWR ID	17313				

Comment Code

Inspector Comment

FS_ID:51666

DS_ID:17313

EP_NO: N/A

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 4/24/2017 Slide gate structure found on WS about 10ft from levee toe. Vegetation was too thick to see if there were any more appurtances associated with this crossing visible on the WS. Nothing was visible on the LS. House located above pipe alignment at LS levee toe. Crossing appears abandoned and should be done so properly. (DWR Sutter Yard- A Freitag) 11/7/2016 Unable to locate. (DWR Sutter Yard- A Freitag) 6/6/2016 Unable to locate. 4/6/2015 Unable to locate. 6/30/2014 Unable to locate. 12/30/2013 Unable to locate. 7/29/2013 Same as last inspection. Unable to locate.

FIELD_STRUCT_DESC: *ABANDONED* 18-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Slide gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 3.6)].

FS Date: 4/26/2017 12:11:41 PM

Photo 2 of 2 : UCIP_FA_2018_51666_77005.jpg



View of WS from levee shoulder

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	3.85	Rating **	M	Issue No.	147
LM End	3.85	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.204141°	39.204141°	
			-121.982698°	-121.982698°	
DWR ID	17314				

Comment Code

Inspector Comment

FS_ID:51671

DS_ID:17314

EP_NO: 9501-1

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 4/24/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/7/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)6/17/2016 DO NOT BELIEVE THIS IS AN ABANDONED CROSSING- there is a newer looking pump present inside the WS pump house with an active PG&E power meter. Also the dirt below the siphon breaker inside of the riser on the LS shoulder was wet indicating that the breaker has had running water through it recently. Also the ground under the LS toe airvent was wet indicating that it too has recently had water flowing through it.

4/4/2016 Concrete box on LS still silted in. Cracking and slope failure previously cited appears to have been repaired as we could not locate. Shutoff valves appear in good condition. If crossing is abandoned, should be done so properly.4/6/2015 Same as last inspection. Concrete pit on WS berm. Concrete distribution box on LS silted and erosion around the box. Slope failure/ transverse cracks on LS levee slope. Two depressions on WS berm.6/30/2014 Crossing appears to be being made active again. WS bank has been cleared of all vegetation and debris to allow pump to slide down to water level. New shutoff valve installed on WS shoulder inside of cmp stand pipe. New air-vac installed inside cmp standpipe on LS shoulder and air vent installed on LS toe. Could not Locate pipe end on LS. Need to check for permit number for work done.12/30/2013 Repairs to LS and WS slopes have been completed. Not sure if this is an active or abandoned crossing. LS distribution box is still silted in.7/29/2013 Repairs to LS slope and pipe are in progress. Nothing has been done yet to the WS depressions.

FIELD_STRUCT_DESC: 16-inch asphalt coated steel irrigation pipe through the levee, 2 feet below the crown. Pump house over concrete pit on the waterside (WS) berm. A 16-inch gear-operated butterfly valve inside riser with cover off the WS shoulder. Siphon breaker inside riser with cover off the landside (LS) shoulder. Discharges into a concrete box at the LS toe. (Permit No. 9501-1, 2014 - Howard). This pipe was a replacement for an existing (failed) 16-inch pipe under DSID 25455, referenced in the Levee Log and replaced under Permit No. 9501-1. [Additional Reference(s): DWR Levee Log, 2002]. The Levee Log references this pipe's appurtenances along with the original 16-inch under DSID 25455.

FS Date: 4/26/2017 12:29:36 PM

Photo 1 of 3 : UCIP_FA_2018_51671_71480.jpg



WS river bank

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	3.85	Rating **	M	Issue No.	147 (cont)
LM End	3.85	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.204141 °	39.204141 °
				-121.982698 °	-121.982698 °
DWR ID	17314				

Comment Code

Inspector Comment

FS_ID:51671
DS_ID:17314
EP_NO: 9501-1
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/7/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)6/17/2016 DO NOT BELIEVE THIS IS AN ABANDONED CROSSING- there is a newer looking pump present inside the WS pump house with an active PG&E power meter. Also the dirt below the siphon breaker inside of the riser on the LS shoulder was wet indicating that the breaker has had running water through it recently. Also the ground under the LS toe airvent was wet indicating that it too has recently had water flowing through it.

4/4/2016 Concrete box on LS still silted in. Cracking and slope failure previously cited appears to have been repaired as we could not locate. Shutoff valves appear in good condition. If crossing is abandoned, should be done so properly.4/6/2015 Same as last inspection.Concrete pit on WS berm.Concrete distribution box on LS silted and erosion around the box.Slope failure/ transverse cracks on LS levee slope.Two depressions on WS berm.6/30/2014 Crossing appears to be being made active again. WS bank has been cleared of all vegetation and debris to allow pump to slide down to water level. New shutoff valve installed on WS shoulder inside of cmp stand pipe. New air-vac installed inside cmp standpipe on LS shoulder and air vent installed on LS toe. Could not Locate pipe end on LS. Need to check for permit number for work done.12/30/2013 Repairs to LS and WS slopes have been completed. Not sure if this is an active or abandoned crossing. LS distribution box is still silted in.7/29/2013 Repairs to LS slope and pipe are in progress. Nothing has been done yet to the WS depressions.

FIELD_STRUCT_DESC: 16-inch asphalt coated steel irrigation pipe through the levee, 2 feet below the crown. Pump house over concrete pit on the waterside (WS) berm. A 16-inch gear-operated butterfly valve inside riser with cover off the WS shoulder. Siphon breaker inside riser with cover off the landside (LS) shoulder. Discharges into a concrete box at the LS toe. (Permit No. 9501-1, 2014 - Howard). This pipe was a replacement for an existing (failed) 16-inch pipe under DSID 25455, referenced in the Levee Log and replaced under Permit No. 9501-1. [Additional Reference(s): DWR Levee Log, 2002]. The Levee Log references this pipe's appurtenances along with the original 16-inch under DSID 25455.

FS Date: 4/26/2017 12:29:36 PM

Photo 2 of 3 : UCIP_FA_2018_51671_71479.jpg



WS standpipe with shut off valve inside

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	3.85	Rating **	M	Issue No.	147 (cont)
LM End	3.85	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.204141°	39.204141°	
			-121.982698°	-121.982698°	

DWR ID	17314
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Comment Code

Inspector Comment

FS_ID:51671
DS_ID:17314
EP_NO: 9501-1
Repair Type: Non-Urgent
Crossing Status: Found

UCIP Comments: 4/24/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/7/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)6/17/2016 DO NOT BELIEVE THIS IS AN ABANDONED CROSSING- there is a newer looking pump present inside the WS pump house with an active PG&E power meter. Also the dirt below the siphon breaker inside of the riser on the LS shoulder was wet indicating that the breaker has had running water through it recently. Also the ground under the LS toe airvent was wet indicating that it too has recently had water flowing through it.

4/4/2016 Concrete box on LS still silted in. Cracking and slope failure previously cited appears to have been repaired as we could not locate. Shutoff valves appear in good condition. If crossing is abandoned, should be done so properly.4/6/2015 Same as last inspection. Concrete pit on WS berm. Concrete distribution box on LS silted and erosion around the box. Slope failure/ transverse cracks on LS levee slope. Two depressions on WS berm.6/30/2014 Crossing appears to be being made active again. WS bank has been cleared of all vegetation and debris to allow pump to slide down to water level. New shutoff valve installed on WS shoulder inside of cmp stand pipe. New air-vac installed inside cmp standpipe on LS shoulder and air vent installed on LS toe. Could not Locate pipe end on LS. Need to check for permit number for work done.12/30/2013 Repairs to LS and WS slopes have been completed. Not sure if this is an active or abandoned crossing. LS distribution box is still silted in.7/29/2013 Repairs to LS slope and pipe are in progress. Nothing has been done yet to the WS depressions.

FIELD_STRUCT_DESC: 16-inch asphalt coated steel irrigation pipe through the levee, 2 feet below the crown. Pump house over concrete pit on the waterside (WS) berm. A 16-inch gear-operated butterfly valve inside riser with cover off the WS shoulder. Siphon breaker inside riser with cover off the landside (LS) shoulder. Discharges into a concrete box at the LS toe. (Permit No. 9501-1, 2014 - Howard). This pipe was a replacement for an existing (failed) 16-inch pipe under DSID 25455, referenced in the Levee Log and replaced under Permit No. 9501-1. [Additional Reference(s): DWR Levee Log, 2002]. The Levee Log references this pipe's appurtenances along with the original 16-inch under DSID 25455.

FS Date: 4/26/2017 12:29:36 PM

Photo 3 of 3 : UCIP_FA_2018_51671_71478.jpg



WS shut off valve

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	4.44	Rating **	M	Issue No.	148
LM End	4.44	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.210230 °	39.210230 °
				-121.988223 °	-121.988223 °
DWR ID	17297				

Comment Code

Inspector Comment

FS_ID:52952

DS_ID:17297

EP_NO: 9501-A

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 8/30/2018 Same as last inspection, with no signs of any improvements made to pipe or pump. Vegetation obstructed full inspection at water level, but the levee looks in very good condition with no signs of threat. Downgrading to Non-Urgent from Urgent due to the good condition of the levee (D. Sanoski - DWR UCIP).4/24/2017 WS was mostly underwater during site visit. Not sure if the 10" pipe was still opened or capped on the WS end but no water appeared to be free flowing through the levee. No sign of orange pump. (DWR Sutter Yard-AFreitag)11/7/2016 Orange pump was not present at this inspection. 10" pipe penetration left opened on WS end. (DWR Sutter Yard-AFreitag)6/17/2016 Orange pump motor was lowered down the WS berm to water level and was pumping water through the pipe to the LS outlet. What is pictured in (photo#17 UCIP_Photos_No.75150) as "pipe debris" is the pipe section that is used to connect the orange pump to the open 10" pipe that penetrates the levee. In the same photo the "possible penetration" is the flexible suction line for the pump. (DWR Sutter Yard - aFreitag)4/4/2016 Flow meter installed on LS indicates this pipe is used seasonally and not abandoned. Pipe open on WS (see photo). No cover on old siphon breaker. Slight sloughing of LS slope. (DWR UCIP - kfazel)4/6/2015 Pump disconnected and pulled up to WS toe. Not Sure if leaky valve has ever been fixed. (DWR Sutter Yard - aFreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - aFreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - aFreitag)7/29/2013 Not an abandoned crossing. Pump is connected to WS pipe end at water level and is pumping water to LS and then goes underground to an irrigation ditch about 100yds. upstream. Pump and pipes are disconnected and pulled up to WS toe for high water season. Leaky valve on LS shoulder does not appear to have been fixed. (DWR Sutter Yard - aFreitag)12/12/2012 Motor and pump on berm. Appears an abandoned crossing. Leaky valve on LS slope. Pipe removed and laying on berm. No electric connection to the pump. (DWR UCIP - pamatya)

FIELD_STRUCT_DESC: 10-inch asphalt coated steel irrigation pipe through the levee, 5 feet below the crown. Siphon breaker off the landside (LS) shoulder. Motor and pump on the waterside (WS) at water level. The pipe is open through the WS slope with an air vent on the apex of the pipe. Another piece of pipe, found laying on the WS slope in 2016, is used to connect the 10-inch open pipe to the pump at the water level. A flexible suction line for the pump found in the water above the pump and motor. Abandoned 16-inch crossing (DSID 17326) associated with this permit also at this location. Pipe through the LS slope is steel with polyvinyl chloride (PVC) pipe installed at its flange;

Photo 1 of 3 : UCIP_FA_2018_52952_47068.jpg



Crown view: transverse cracks on levee road.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

PVC pipe partially penetrates the LS slope. Flow meter installed to PVC pipe section on LS. (Permit No. 9501-A, 1978 - Mayfair Packing, Inc.).
[Additional Reference(s): DWR Levee Log, 2002].
FS Date: 8/30/2018 11:06:59 AM

LM Start	4.44	Rating **	M	Issue No.	148 (cont)
LM End	4.44	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2018_52952_47067.jpg



Waterside view: overview of pump and abandoned pipe

LM Start	4.44	Rating **	M	Issue No.	148 (cont)
LM End	4.44	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_FA_2018_52952_47066.jpg



WS view: pump motor on the berm (found at water level in 2016)

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	En : Enforcement
	N : Not Inspected/Rated	
	C : Corrected	
	A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	4.44	Rating **	M	Issue No.	149
LM End	4.44	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.210230 °	39.210230 °
				-121.988223 °	-121.988223 °
DWR ID	17326				
Comment Code					
Inspector Comment					
FS_ID:52953 DS_ID:17326 EP_NO: 9501 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 8/30/2018 Same as last inspection. Needs to be abandoned properly; downgrading to Non-Urgent from Urgent (D. Sanoski - DWR UCIP).4/24/2017 Abandoned and needs to be done properly. (DWR Sutter Yard- AFreitag)11/7/2016 Abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)6/17/2016 Abanoned pipe. photo comments updated. (DWR Sutter Yard - afreitag)4/4/2016 Open on WS. Needs proper abandonment. Contact owner to determine status of crossing. (DWR UCIP - kfazel)4/6/2015 Same as last inspection. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/12/2012 Need to be properly abandoned. Transverse cracks on levee road.Also found a concrete outlet on LS. It is not clear whether this passes through the levee. (DWR UCIP - pamatya) FIELD_STRUCT_DESC: *ABANDONED* 16-inch steel irrigation pipe, 13.9 feet below the crown. Gate valve and pump in pump house on the waterside (WS) berm. 2-3 inch electrical conduit penetrates levee alongside pipe. Flap gate and concrete distribution box on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9501, 1974 - Mayfair Farms, abandoned under Permit No. 9501-A, 1978 - MayFair Packing, Inc.). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 4.37)] FS Date: 8/30/2018 11:27:41 AM					

Photo 1 of 3 : UCIP_FA_2018_52953_47080.jpg



Crown view: cracks along pipe alignment (transverse crack)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	4.44	Rating **	M	Issue No.	149 (cont)	
LM End	4.44	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.210230 °	39.210230 °	
				-121.988223 °	-121.988223 °	
DWR ID	17326					
Comment Code						
Inspector Comment						
FS_ID:52953 DS_ID:17326 EP_NO: 9501 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 8/30/2018 Same as last inspection. Needs to be abandoned properly; downgrading to Non-Urgent from Urgent (D. Sanoski - DWR UCIP).4/24/2017 Abandoned and needs to be done properly. (DWR Sutter Yard- AFreitag)11/7/2016 Abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)6/17/2016 Abanoned pipe. photo comments updated. (DWR Sutter Yard - afreitag)4/4/2016 Open on WS. Needs proper abandonment. Contact owner to determine status of crossing. (DWR UCIP - kfazel)4/6/2015 Same as last inspection. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/12/2012 Need to be properly abandoned. Transverse cracks on levee road.Also found a concrete outlet on LS. It is not clear whether this passes through the levee. (DWR UCIP - pamatya) FIELD_STRUCT_DESC: *ABANDONED* 16-inch steel irrigation pipe, 13.9 feet below the crown. Gate valve and pump in pump house on the waterside (WS) berm. 2-3 inch electrical conduit penetrates levee alongside pipe. Flap gate and concrete distribution box on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9501, 1974 - Mayfair Farms, abandoned under Permit No. 9501-A, 1978 - MayFair Packing, Inc.). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 4.37)] FS Date: 8/30/2018 11:27:41 AM						

Photo 2 of 3 : UCIP_FA_2018_52953_47079.jpg



Waterside view: overview

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	4.44	Rating **	M	Issue No.	149 (cont)	
LM End	4.44	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.210230 °	39.210230 °	
				-121.988223 °	-121.988223 °	
DWR ID	17326					
Comment Code						
Inspector Comment						
FS_ID:52953 DS_ID:17326 EP_NO: 9501 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 8/30/2018 Same as last inspection. Needs to be abandoned properly; downgrading to Non-Urgent from Urgent (D. Sanoski - DWR UCIP).4/24/2017 Abandoned and needs to be done properly. (DWR Sutter Yard- AFreitag)11/7/2016 Abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)6/17/2016 Abanoned pipe. photo comments updated. (DWR Sutter Yard - afreitag)4/4/2016 Open on WS. Needs proper abandonment. Contact owner to determine status of crossing. (DWR UCIP - kfazel)4/6/2015 Same as last inspection. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/12/2012 Need to be properly abandoned. Transverse cracks on levee road.Also found a concrete outlet on LS. It is not clear whether this passes through the levee. (DWR UCIP - pamatya) FIELD_STRUCT_DESC: *ABANDONED* 16-inch steel irrigation pipe, 13.9 feet below the crown. Gate valve and pump in pump house on the waterside (WS) berm. 2-3 inch electrical conduit penetrates levee alongside pipe. Flap gate and concrete distribution box on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9501, 1974 - Mayfair Farms, abandoned under Permit No. 9501-A, 1978 - MayFair Packing, Inc.). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 4.37)] FS Date: 8/30/2018 11:27:41 AM						

Photo 3 of 3 : UCIP_FA_2018_52953_47078.jpg



Waterside view: overview of pipe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	4.44	Rating **	M	Issue No.	150
LM End	4.44	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.210280 °	39.210280 °
				-121.988284 °	-121.988284 °
DWR ID	17484				
Comment Code					
Inspector Comment					
FS_ID:51676 DS_ID:17484 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/24/2017 Abandoned- needs to be done so properly. WS underwater during site visit. (DWR Sutter Yard- AFreitag)11/7/2016 Abandoned but needs to be done so properly. (DWR Sutter Yard- AFreitag)9/29/2016 Crossing has been downgraded from Urgent to Non-Urgent crossing is abandoned and WS surge box is full of debris. Need to contact owner and have owner coordinate with CVFPB to comply with Title 23. (DWR UCIP - omagana)6/17/2016 Abandoned crossing. Photo comments updated. (DWR Sutter Yard - afreitag)4/4/2016 Same as last inspection. (DWR UCIP - kfazel)4/6/2015 Crossing appears to be an old irrigation structure and not a drain pipe. It appears abandoned as WS surge box is full of debris. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/12/2012 Debris and deteriorated concrete. Gate valve in surge tank. (DWR UCIP - pamatya) FIELD_STRUCT_DESC: *ABANDONED* 24-inch steel irrigation pipe through the levee, invert 26 feet below the crown. Slide gate on the waterside (WS). [Additional Reference(s): USACE Sacramento O&M Manual 136, March 1960 (HLM 4.37)]. FS Date: 4/26/2017 12:59:53 PM					

LM Start	4.44	Rating **	M	Issue No.	150 (cont)
LM End	4.44	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_51676_47087.jpg



Crown view: transverse crack on levee road

Photo 2 of 3 : UCIP_FA_2018_51676_47086.jpg



Waterside view: overview of concrete surge box

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	4.44	Rating **	M	Issue No.	150 (cont)	
LM End	4.44	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.210280 °	39.210280 °	
				-121.988284 °	-121.988284 °	
DWR ID	17484					
Comment Code						
Inspector Comment						
FS_ID:51676 DS_ID:17484 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/24/2017 Abandoned- needs to be done so properly. WS underwater during site visit. (DWR Sutter Yard- AFreitag)11/7/2016 Abandoned but needs to be done so properly. (DWR Sutter Yard- AFreitag)9/29/2016 Crossing has been downgraded from Urgent to Non-Urgent crossing is abandoned and WS surge box is full of debris. Need to contact owner and have owner coordinate with CVFPB to comply with Title 23. (DWR UCIP - omagana)6/17/2016 Abandoned crossing. Photo comments updated. (DWR Sutter Yard - afreitag)4/4/2016 Same as last inspection. (DWR UCIP - kfazel)4/6/2015 Crossing appears to be an old irrigation structure and not a drain pipe. It appears abandoned as WS surge box is full of debris. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/12/2012 Debris and deteriorated concrete. Gate valve in surge tank. (DWR UCIP - pamatya) FIELD_STRUCT_DESC: *ABANDONED* 24-inch steel irrigation pipe through the levee, invert 26 feet below the crown. Slide gate on the waterside (WS). [Additional Reference(s): USACE Sacramento O&M Manual 136, March 1960 (HLM 4.37)]. FS Date: 4/26/2017 12:59:53 PM						

Photo 3 of 3 : UCIP_FA_2018_51676_47085.jpg



Waterside view: concrete surge box

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	4.64	Rating **	M	Issue No.	151
LM End	4.64	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.212627 °	39.212627 °
				-121.990413 °	-121.990413 °
DWR ID	17318				
Comment Code					
Inspector Comment					
FS_ID:51677 DS_ID:17318 EP_NO: 9501 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/24/2017 LS shoulder erosion repaired. Not sure if any changes or repairs were done to the pipe itself. (DWR Sutter Yard- AFreitag)11/7/2016 LS erosion still a problem at the LS shoulder. (DWR Sutter Yard- AFreitag)6/6/2016 LS erosion still present and appears to be getting worse. It is only a few inches away from affecting the paved road way. (DWR Sutter Yard - afreitag)4/4/2016 Same as last inspection. Erosion problem is urgently in need of repair. (DWR UCIP - kfazel)4/6/2015 Erosion problem still present near the LS shoulder. If it gets any worse then it may start to affect the road way. Found a siphon breaker on LS. Antenna and pump station on WS. Huge erosion on LS slope. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Erosion near LS shoulder may start affecting the roadway if it gets any worse.12/12/2012 Found a siphon breaker on LS. Antenna and pump station on WS. Huge erosion on LS slope. (DWR UCIP - pamatya) FIELD_STRUCT_DESC: 24-inch asphalt coated steel irrigation pipe, 4 feet below the crown. Slant pump on a steel platform on the waterside (WS) berm. Siphon breaker on the apex of the pipe and off the levee crown on the landside (LS). 2 shut-off (butterfly) valves off the LS toe. Power pole with electrical conduit and panel on the LS toe. Pipe appears to run diagonally through the levee and discharges into a ditch off the LS toe. Gate structure on the outlet at the ditch. (Automatic Board Order (ABO) issued as Permit No. 9501, 1974 - Mayfair Farms, Inc.). Slant pump installed under Permit No. 10935, 1975 - Pires. [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/26/2017 1:01:23 PM					

Photo 1 of 3 : UCIP_FA_2018_51677_47092.jpg



Waterside view: overview

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	4.64	Rating **	M	Issue No.	151 (cont)
LM End	4.64	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.212627 °	39.212627 °
				-121.990413 °	-121.990413 °
DWR ID	17318				

Comment Code

Inspector Comment

FS_ID:51677

DS_ID:17318

EP_NO: 9501

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 4/24/2017 LS shoulder erosion repaired. Not sure if any changes or repairs were done to the pipe itself. (DWR Sutter Yard-AFreitag)11/7/2016 LS erosion still a problem at the LS shoulder.

(DWR Sutter Yard- AFreitag)6/6/2016 LS erosion still present and

appears to be getting worse. It is only a few inches away from affecting

the paved road way. (DWR Sutter Yard - afreitag)4/4/2016 Same as

last inspection. Erosion problem is urgently in need of repair. (DWR

UCIP - kfazel)4/6/2015 Erosion problem still present near the LS

shoulder. If it gets any worse then it may start to affect the road way.

Found a siphon breaker on LS. Antenna and pump station on WS.

Huge erosion on LS slope. (DWR Sutter Yard - afreitag)6/30/2014

Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013

Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013

Erosion near LS shoulder may start affecting the roadway if it gets any

worse.12/12/2012 Found a siphon breaker on LS. Antenna and pump

station on WS. Huge erosion on LS slope. (DWR UCIP - pamatya)

FIELD_STRUCT_DESC: 24-inch asphalt coated steel irrigation pipe, 4

feet below the crown. Slant pump on a steel platform on the waterside

(WS) berm. Siphon breaker on the apex of the pipe and off the levee

crown on the landside (LS). 2 shut-off (butterfly) valves off the LS toe.

Power pole with electrical conduit and panel on the LS toe. Pipe

appears to run diagonally through the levee and discharges into a ditch

off the LS toe. Gate structure on the outlet at the ditch. (Automatic

Board Order (ABO) issued as Permit No. 9501, 1974 - Mayfair Farms,

Inc.). Slant pump installed under Permit No. 10935, 1975 - Pires.

[Additional Reference(s): DWR Levee Log, 2002].

FS Date: 4/26/2017 1:01:23 PM

Photo 2 of 3 : UCIP_FA_2018_51677_47091.jpg



Waterside view: overview of pump station

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	En : Enforcement
	N : Not Inspected/Rated	
	C : Corrected	
	A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	4.64	Rating **	M	Issue No.	151 (cont)	
LM End	4.64	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.212627°	39.212627°	
				-121.990413°	-121.990413°	
DWR ID	17318					
Comment Code						
Inspector Comment						
FS_ID:51677 DS_ID:17318 EP_NO: 9501 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/24/2017 LS shoulder erosion repaired. Not sure if any changes or repairs were done to the pipe itself. (DWR Sutter Yard- AFreitag)11/7/2016 LS erosion still a problem at the LS shoulder. (DWR Sutter Yard- AFreitag)6/6/2016 LS erosion still present and appears to be getting worse. It is only a few inches away from affecting the paved road way. (DWR Sutter Yard - afreitag)4/4/2016 Same as last inspection. Erosion problem is urgently in need of repair. (DWR UCIP - kfazel)4/6/2015 Erosion problem still present near the LS shoulder. If it gets any worse then it may start to affect the road way. Found a siphon breaker on LS. Antenna and pump station on WS. Huge erosion on LS slope. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Erosion near LS shoulder may start affecting the roadway if it gets any worse.12/12/2012 Found a siphon breaker on LS. Antenna and pump station on WS. Huge erosion on LS slope. (DWR UCIP - pamatya) FIELD_STRUCT_DESC: 24-inch asphalt coated steel irrigation pipe, 4 feet below the crown. Slant pump on a steel platform on the waterside (WS) berm. Siphon breaker on the apex of the pipe and off the levee crown on the landside (LS). 2 shut-off (butterfly) valves off the LS toe. Power pole with electrical conduit and panel on the LS toe. Pipe appears to run diagonally through the levee and discharges into a ditch off the LS toe. Gate structure on the outlet at the ditch. (Automatic Board Order (ABO) issued as Permit No. 9501, 1974 - Mayfair Farms, Inc.). Slant pump installed under Permit No. 10935, 1975 - Pires. [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/26/2017 1:01:23 PM						

Photo 3 of 3 : UCIP_FA_2018_51677_47096.jpg



Waterside view: inclined pipes

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	4.75	Rating **	M	Issue No.	105
LM End	4.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.213509 °	39.213665 °
				-121.991993 °	-121.992220 °
DWR ID	DWR_ST0003_01_f_2016_105				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	5.03	Rating **	M	Issue No.	152
LM End	5.03	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.214949 °	39.214949 °
				-121.996980 °	-121.996980 °
DWR ID	17287				
Comment Code					
Inspector Comment					
FS_ID:51679 DS_ID:17287 EP_NO: 9520 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 4/24/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)11/7/2016 appears abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)6/6/2016 Appears to be an abandoned crossing.4/6/2015 Same as last inspection. Still appears abandoned. A concrete standpipe and a CMP riser on WS. It seems abandoned and if so should be done so properly.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 17 feet below the crown, not found in 2015. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope, found in 2015. Pump on the WS bank and concrete standpipe on the WS berm, found in 2015. 18-inch concrete pipe from standpipe at WS toe. Pipe discharges into a field on the landside (LS), not found in 2015. (24-inch pipe [HLM 4.99] authorized under Automatic Board Order (ABO) issued as Permit No. 9520, 1974 - Arnold). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 4.99)]. FS Date: 4/26/2017 1:07:37 PM					

Photo 1 of 3 : UCIP_FA_2018_51679_47107.jpg



Waterside view: overview

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	5.03	Rating **	M	Issue No.	152 (cont)
LM End	5.03	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.214949 °	39.214949 °	
			-121.996980 °	-121.996980 °	
DWR ID	17287				

Comment Code

Inspector Comment

FS_ID:51679
DS_ID:17287
EP_NO: 9520
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 4/24/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)11/7/2016 appears abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)6/6/2016 Appears to be an abandoned crossing.4/6/2015 Same as last inspection. Still appears abandoned. A concrete standpipe and a CMP riser on WS. It seems abandoned and if so should be done so properly.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 17 feet below the crown, not found in 2015. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope, found in 2015. Pump on the WS bank and concrete standpipe on the WS berm, found in 2015. 18-inch concrete pipe from standpipe at WS toe. Pipe discharges into a field on the landside (LS), not found in 2015. (24-inch pipe [HLM 4.99] authorized under Automatic Board Order (ABO) issued as Permit No. 9520, 1974 - Arnold). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 4.99)].
FS Date: 4/26/2017 1:07:37 PM

LM Start	5.03	Rating **	M	Issue No.	152 (cont)
LM End	5.03	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2018_51679_47106.jpg



Waterside view: CMP riser with slide gate

Photo 3 of 3 : UCIP_FA_2018_51679_47105.jpg



Waterside view: inside CMP riser

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	5.04	Rating **	M	Issue No.	153
LM End	5.04	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.214954 °	39.214954 °
				-121.997014 °	-121.997014 °
DWR ID	17288				
Comment Code					
Inspector Comment					
FS_ID:51680 DS_ID:17288 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 4/24/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- AFreitag)11/7/2016 Appears abandoned, Should be done so properly. (DWR Sutter Yard- AFreitag)6/6/2016 Appears to be an abandoned crossing.4/4/2016 If abandoned, should be done so properly.4/6/2015 Same as last inspection. Only WS riser amd slide gate found.Only a CMP riser with slide gate found on WS.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, 13.8 feet below the crown, not found in 2015. Slide gate in a CMP riser on the waterside (WS) slope, found in 2015. Flap gate removed at the landside (LS) end. (Automatic Board Order (ABO) issued as Permit No. 9520, 1974 - Arnold). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 4.99)]. FS Date: 4/26/2017 1:19:25 PM					

LM Start	5.04	Rating **	M	Issue No.	153 (cont)
LM End	5.04	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_51680_47112.jpg



Waterside view: CMP riser with slide gate (right)

Photo 2 of 3 : UCIP_FA_2018_51680_47111.jpg



Waterside view: CMP riser with slide gate

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	5.04	Rating **	M	Issue No.	153 (cont)	
LM End	5.04	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.214954 °	39.214954 °	
				-121.997014 °	-121.997014 °	
DWR ID	17288					
Comment Code						
Inspector Comment						
FS_ID:51680 DS_ID:17288 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 4/24/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- AFreitag)11/7/2016 Appears abandoned, Should be done so properly. (DWR Sutter Yard- AFreitag)6/6/2016 Appears to be an abandoned crossing.4/4/2016 If abandoned, should be done so properly.4/6/2015 Same as last inspection. Only WS riser amd slide gate found.Only a CMP riser with slide gate found on WS.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, 13.8 feet below the crown, not found in 2015. Slide gate in a CMP riser on the waterside (WS) slope, found in 2015. Flap gate removed at the landside (LS) end. (Automatic Board Order (ABO) issued as Permit No. 9520, 1974 - Arnold). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 4.99)]. FS Date: 4/26/2017 1:19:25 PM						

Photo 3 of 3 : UCIP_FA_2018_51680_47110.jpg



Landside view: overview- county road and road drainpipe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	5.04	Rating **	M	Issue No.	154
LM End	5.04	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.214970 °	39.214970 °
				-121.997177 °	-121.997177 °
DWR ID	17289				

Comment Code

Inspector Comment

FS_ID:51681
DS_ID:17289
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 Appears abandoned- needs to be done so properly. Sloughing still present near WS surge box. (DWR Sutter Yard- A Freitag)11/7/2016 Appears abandoned but needs to be done so properly. (DWR Sutter Yard- A Freitag)6/6/2016 Sink holes appear to have been repaired but there is still some minor sloughing around the WS surge box. Surge box was full of water at time of inspection and I could not see the pipe inside to see if it still looked corroded and rusty.4/4/2016 Could not find sink holes as in 07/2013 photo. Appears repaired, but sloughing still present around surge box. Need confirmation that pipe was abandoned properly.4/6/2015 Repairs are in progress to this crossing. Surge box on WS and distribution box across the county road on LS. Abandoned pump station and electrical panel on WS. A concrete pump pit on WS.6/30/2014 Sink hole near WS surge box is still present. Portable pumps were lowered down the WS bank and were pumping water directly into WS standpipe on to by pass the surge box.12/30/2013 Sink Hole above pipe on WS still present. Pipe end inside of WS surge box shows heavy signs of rust and corrosion. Recommend having an internal camera inspection completed on pipe.7/29/2013 Portable tow-pump lowered down WS berm to water level and is pumping water into concrete surge box on WS and the filling the irrigation ditch on LS. Sink hole with standing water that is present above the outlet pipe for the WS surge box. This may indicate a leaking pipe or cracked concrete.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal irrigation pipe through the levee, 18.4 feet below the crown, not found in 2016. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) shoulder, found in 2016. Pump and concrete pump pit on the WS bank, found in 2013. Concrete surge box on the WS berm, found in 2016. Pipe discharges into an irrigation ditch on the landside (LS). (Levee Log references Permit No. 2904, 1958 - Butte Creek Farms, Inc. This permit authorizes an existing pump house and makes no mention of this pipe and its appurtenances). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 5.00)]
FS Date: 4/26/2017 1:20:24 PM

Photo 1 of 3 : UCIP_FA_2018_51681_47115.jpg



Waterside view: overview

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	5.04	Rating **	M	Issue No.	154 (cont)
LM End	5.04	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.214970 °	39.214970 °
				-121.997177 °	-121.997177 °
DWR ID	17289				

Comment Code

Inspector Comment

FS_ID:51681
DS_ID:17289
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 Appears abandoned- needs to be done so properly. Sloughing still present near WS surge box. (DWR Sutter Yard- A Freitag)11/7/2016 Appears abandoned but needs to be done so properly. (DWR Sutter Yard- A Freitag)6/6/2016 Sink holes appear to have been repaired but there is still some minor sloughing around the WS surge box. Surge box was full of water at time of inspection and I could not see the pipe inside to see if it still looked corroded and rusty.4/4/2016 Could not find sink holes as in 07/2013 photo. Appears repaired, but sloughing still present around surge box. Need confirmation that pipe was abandoned properly.4/6/2015 Repairs are in progress to this crossing. Surge box on WS and distribution box across the county road on LS. Abandoned pump station and electrical panel on WS. A concrete pump pit on WS.6/30/2014 Sink hole near WS surge box is still present. Portable pumps were lowered down the WS bank and were pumping water directly into WS standpipe on to by pass the surge box.12/30/2013 Sink Hole above pipe on WS still present. Pipe end inside of WS surge box shows heavy signs of rust and corrosion. Recommend having an internal camera inspection completed on pipe.7/29/2013 Portable tow-pump lowered down WS berm to water level and is pumping water into concrete surge box on WS and the filling the irrigation ditch on LS. Sink hole with standing water that is present above the outlet pipe for the WS surge box. This may indicate a leaking pipe or cracked concrete.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal irrigation pipe through the levee, 18.4 feet below the crown, not found in 2016. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) shoulder, found in 2016. Pump and concrete pump pit on the WS bank, found in 2013. Concrete surge box on the WS berm, found in 2016. Pipe discharges into an irrigation ditch on the landside (LS). (Levee Log references Permit No. 2904, 1958 - Butte Creek Farms, Inc. This permit authorizes an existing pump house and makes no mention of this pipe and its appurtenances). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 5.00)]
FS Date: 4/26/2017 1:20:24 PM

Photo 2 of 3 : UCIP_FA_2018_51681_47113.jpg



Waterside view: CMP riser and surge box

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	5.04	Rating **	M	Issue No.	154 (cont)
LM End	5.04	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.214970 °	39.214970 °
				-121.997177 °	-121.997177 °
DWR ID	17289				

Comment Code

Inspector Comment

FS_ID:51681
DS_ID:17289
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 Appears abandoned- needs to be done so properly. Sloughing still present near WS surge box. (DWR Sutter Yard- A Freitag)11/7/2016 Appears abandoned but needs to be done so properly. (DWR Sutter Yard- A Freitag)6/6/2016 Sink holes appear to have been repaired but there is still some minor sloughing around the WS surge box. Surge box was full of water at time of inspection and I could not see the pipe inside to see if it still looked corroded and rusty.4/4/2016 Could not find sink holes as in 07/2013 photo. Appears repaired, but sloughing still present around surge box. Need confirmation that pipe was abandoned properly.4/6/2015 Repairs are in progress to this crossing. Surge box on WS and distribution box across the county road on LS. Abandoned pump station and electrical panel on WS. A concrete pump pit on WS.6/30/2014 Sink hole near WS surge box is still present. Portable pumps were lowered down the WS bank and were pumping water directly into WS standpipe on to by pass the surge box.12/30/2013 Sink Hole above pipe on WS still present. Pipe end inside of WS surge box shows heavy signs of rust and corrosion. Recommend having an internal camera inspection completed on pipe.7/29/2013 Portable tow-pump lowered down WS berm to water level and is pumping water into concrete surge box on WS and the filling the irrigation ditch on LS. Sink hole with standing water that is present above the outlet pipe for the WS surge box. This may indicate a leaking pipe or cracked concrete.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal irrigation pipe through the levee, 18.4 feet below the crown, not found in 2016. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) shoulder, found in 2016. Pump and concrete pump pit on the WS bank, found in 2013. Concrete surge box on the WS berm, found in 2016. Pipe discharges into an irrigation ditch on the landside (LS). (Levee Log references Permit No. 2904, 1958 - Butte Creek Farms, Inc. This permit authorizes an existing pump house and makes no mention of this pipe and its appurtenances). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 5.00)]
FS Date: 4/26/2017 1:20:24 PM

Photo 3 of 3 : UCIP_FA_2018_51681_47114.jpg



Waterside view: closer look at surge box

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	5.15	Rating **	M	Issue No.	155
LM End	5.15	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.215409 °	39.215409 °
				-121.999061 °	-121.999061 °
DWR ID	17291				
Comment Code					
Inspector Comment					
FS_ID:51683 DS_ID:17291 EP_NO: 4091 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/24/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)11/7/2016 Abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)6/6/2016 Appears to be an abandoned crossing. WS was to over grown with vegetation to access the area where the WS pump structure was previously found.4/6/2015 Same as last inspection. Crossing appears abandoned. Appears abandoned and if so should be done so properly. No Siphon breaker found on LS.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED* 8-inch asphalt coated steel irrigation pipe through the levee, 4 feet below the crown. Pump on the waterside (WS) bank. Gate valve in a concrete pipe riser on the WS shoulder. (Permit No. 4091, 1962 - Halsey, Yerxa). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/26/2017 1:30:30 PM					

LM Start	5.15	Rating **	M	Issue No.	155 (cont)
LM End	5.15	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_51683_47127.jpg



Waterside view: concrete pipe riser with gate valve

Photo 2 of 3 : UCIP_FA_2018_51683_47126.jpg



Waterside view: burried gate valve in concrete pipe riser

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	5.15	Rating **	M	Issue No.	155 (cont)	
LM End	5.15	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.215409 °	39.215409 °	
				-121.999061 °	-121.999061 °	
DWR ID	17291					
Comment Code						
Inspector Comment						
FS_ID:51683 DS_ID:17291 EP_NO: 4091 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/24/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)11/7/2016 Abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)6/6/2016 Appears to be an abandoned crossing. WS was to over grown with vegetation to access the area where the WS pump structure was previously found.4/6/2015 Same as last inspection. Crossing appears abandoned. Appears abandoned and if so should be done so properly. No Siphon breaker found on LS.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED* 8-inch asphalt coated steel irrigation pipe through the levee, 4 feet below the crown. Pump on the waterside (WS) bank. Gate valve in a concrete pipe riser on the WS shoulder. (Permit No. 4091, 1962 - Halsey, Yerxa). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/26/2017 1:30:30 PM						

Photo 3 of 3 : UCIP_FA_2018_51683_47129.jpg



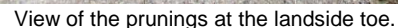
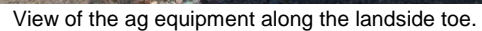
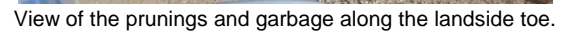
Waterside view: abandoned pump station.

LM Start	5.32	Rating **	M	Issue No.	102
LM End	5.32	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.216516 °	39.216516 °
				-122.001852 °	-122.001852 °
DWR ID	DWR_ST0003_01_f_2016_102				
Comment Code					
EQ : Equipment					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sutter Maintenance Yard East Levee Sacramento River



**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	6.40	Rating **	M	Issue No.	156	
LM End	6.40	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.223796 °	39.223796 °	
				-121.999014 °	-121.999014 °	
DWR ID	17306					
Comment Code						
Inspector Comment						
FS_ID:51688 DS_ID:17306 EP_NO: 9530 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/16/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Appears abandoned. (DWR Sutter Yard- AFreitag)6/1/2016 Appears to be an abandoned crossing. WS end is about 90% buried with soil and the LS end is still unknown.4/1/2015 WS pipe end 3/4 blocked by soil. LS end is still unknown.Pipe outlet on WS partially burried, it needs cleaning.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection FIELD_STRUCT_DESC: *ABANDONED* 30-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. (30- inch pipe [HLM 6.37] authorized under Automatic Board Order (ABO) issued as Permit No. 9530, 1974 - Halsey). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/26/2017 1:45:14 PM						

LM Start	6.40	Rating **	M	Issue No.	156 (cont)
LM End	6.40	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_51688_47158.jpg



Waterside view: CMP riser with slide gate

Photo 2 of 3 : UCIP_FA_2018_51688_47156.jpg



Waterside view: inside CMP riser

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	6.40	Rating **	M	Issue No.	156 (cont)	
LM End	6.40	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.223796 °	39.223796 °	
				-121.999014 °	-121.999014 °	
DWR ID	17306					
Comment Code						
Inspector Comment						
FS_ID:51688 DS_ID:17306 EP_NO: 9530 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/16/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Appears abandoned. (DWR Sutter Yard- AFreitag)6/1/2016 Appears to be an abandoned crossing. WS end is about 90% buried with soil and the LS end is still unknown.4/1/2015 WS pipe end 3/4 blocked by soil. LS end is still unknown.Pipe outlet on WS partially burried, it needs cleaning.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection FIELD_STRUCT_DESC: *ABANDONED* 30-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. (30-inch pipe [HLM 6.37] authorized under Automatic Board Order (ABO) issued as Permit No. 9530, 1974 - Halsey). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 4/26/2017 1:45:14 PM						

Photo 3 of 3 : UCIP_FA_2018_51688_47157.jpg



Waterside view: partially burried steel pipe

LM Start	6.47	Rating **	M	Issue No.	99
LM End	6.47	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.224719 °	39.224719 °
				-121.998623 °	-121.998623 °
DWR ID	DWR_ST0003_01_f_2016_99				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : FA_2018_ST0003_264_99_20180905_00022.jpg



View of the overgrown vegetation along the landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	6.47	Rating **	M	Issue No.	106
LM End	6.47	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.224812 °	39.224812 °
				-121.998615 °	-121.998615 °
DWR ID	DWR_ST0003_01_s_2018_106				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the down tree from the landside slope.					

Photo 1 of 1 : FA_2018_ST0003_264_106_20180905_00025.jpg



View of the downed tree along the landside slope.

LM Start	6.51	Rating **	M	Issue No.	98
LM End	6.51	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.225307°	39.225307°
				-121.998755°	-121.998755°
DWR ID	DWR_ST0003_01_f_2016_98				
Comment Code					
EQ : Equipment					
Inspector Comment					

Photo 1 of 1 : FA_2018_ST0003_264_98_20180905_00021.jpg



View of the ag equipment along the landside toe.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	6.64	Rating **	M	Issue No.	157
LM End	6.64	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.226991 °	39.226991 °
				-121.999907 °	-121.999907 °
DWR ID	17296				

Comment Code

Inspector Comment

FS_ID:51689
DS_ID:17296
EP_NO: 9530
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 4/19/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- A Freitag) 10/31/2016 Abandoned. (DWR Sutter Yard- A Freitag) 6/1/2016 Abandoned- only WS riser and screwgate found. 4/1/2015 Only cmp riser with screwgate found on WS. Screwgate stem is bent. Appears abandoned and should be verified as having been done so properly. Only CMP riser with slide gate found on WS 6/30/2014 Same as last inspection. 12/18/2013 Same as last inspection. 7/23/2013 Same as last inspection
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown, not found in 2015. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope, found in 2015. (24-inch pipe [HLM 6.61] authorized under Automatic Board Order (ABO) issued as Permit No. 9530, 1974 - Halsey). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 6.61)].
FS Date: 4/26/2017 1:50:06 PM

LM Start	6.64	Rating **	M	Issue No.	157 (cont)
LM End	6.64	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP_FA_2018_51689_47181.jpg



Waterside view: CMP riser with slide gate

Photo 2 of 2 : UCIP_FA_2018_51689_47180.jpg



Waterside view: inside CMP riser

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	6.75	Rating **	M	Issue No.	97
LM End	6.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		39.228291 °	39.228291 °	
			-121.998579 °	-121.998579 °	
DWR ID	DWR_ST0003_01_f_2016_97				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

No Photos

LM Start	6.76	Rating **	M	Issue No.	136
LM End	6.79	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		39.228311 °	39.228730 °	
			-121.998555 °	-121.998109 °	
DWR ID	DWR_ST0003_01_f_2017_136				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Site ID No:11 Site Designation:DWR_ST0003_01_s_2012_30 Repair Type: Erosion Rating:Area of Concern Field Date:6/7/2017 Notes: Rodent activity seems to be the source of the problem. Local runoff/rainfall eroded the rodent holes to an advanced state of erosion that could continue with future exposure to wet conditions. Simple fix for the issue would be to grout the holes. Problem levee is a set-back levee.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	6.92	Rating **	M	Issue No.	158	
LM End	6.92	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			39.229670 °		39.229670 °
				-121.996313 °		-121.996313 °
DWR ID	17298					
Comment Code						
Inspector Comment						
FS_ID:51691						
DS_ID:17298						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Not Found						
UCIP Comments: 4/19/2017 Unable to locate. (DWR Sutter Yard-AFreitag)10/31/2016 Unable to locate. (DWR Sutter Yard-Afreitag)6/1/2016 Unable to locate.4/1/2015 Unable to locate.Need to determine status of crossing.6/30/2014 Unable to locate.12/18/2013 Unable to locate.7/23/2013 Same as last inspection. Unable to locate.						
FIELD_STRUCT_DESC: 2.5-inch gas pipeline of an unknown material through the levee, 1 foot below the crown. Gas storage tanks on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002].						
FS Date: 4/26/2017 2:27:22 PM						

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	7.58	Rating **	M	Issue No.	159
LM End	7.58	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.238153 °	39.238153 °
				-121.995024 °	-121.995024 °
DWR ID	17300				
Comment Code					
Inspector Comment					
FS_ID:51694 DS_ID:17300 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 4/19/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned (DWR Sutter Yard- Afreitag)6/1/2016 Abandoned4/1/2015 Only cmp riser and slide gate found on WS.Abandoned riser with slide gate on WS. Abandoned concrete surge box on WS. Verify pipe has been abandoned properly. 6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 14.5 feet below the crown, not found in 2015. Slide gate in a concrete surge box on the waterside (WS) berm, found in 2015. Slide gate in a corrugated metal pipe (CMP) riser, found in 2015. Pump on the WS slope, not found in 2015. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 7.61)]. FS Date: 4/26/2017 2:37:43 PM					

LM Start	7.58	Rating **	M	Issue No.	159 (cont)
LM End	7.58	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_51694_47189.jpg



Waterside view: overview

Photo 2 of 3 : UCIP_FA_2018_51694_47188.jpg



Waterside view: CMP riser with slide gate

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	7.58	Rating **	M	Issue No.	159 (cont)	
LM End	7.58	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.238153 °	39.238153 °	
				-121.995024 °	-121.995024 °	
DWR ID	17300					
Comment Code						
Inspector Comment						
FS_ID:51694 DS_ID:17300 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 4/19/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned (DWR Sutter Yard- AFreitag)6/1/2016 Abandoned4/1/2015 Only cmp riser and slide gate found on WS.Abandoned riser with slide gate on WS. Abandoned concrete surge box on WS. Verify pipe has been abandoned properly. 6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 14.5 feet below the crown, not found in 2015. Slide gate in a concrete surge box on the waterside (WS) berm, found in 2015. Slide gate in a corrugated metal pipe (CMP) riser, found in 2015. Pump on the WS slope, not found in 2015. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 7.61)]. FS Date: 4/26/2017 2:37:43 PM						

Photo 3 of 3 : UCIP_FA_2018_51694_47192.jpg



Waterside view: abandoned concrete surge box

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	7.72	Rating **	M	Issue No.	160
LM End	7.72	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.239458°	39.239458°	
			-121.993398°	-121.993398°	
DWR ID	17301				

Comment Code

Inspector Comment

FS_ID:51695
DS_ID:17301
EP_NO: 9532
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/19/2017 Abandoned- erosion/depression present around the WS box (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned and erosion still present near WS box.(DWR Sutter Yard- AFreitag)6/1/2016 Appears to be an abandoned crossing.4/1/2015 Silted concrete box on WS. Depression/erosion around concrete box on WS.Silted concrete box on WS. Depression/erosion around concrete box on WS.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch by 48-inch reinforced concrete box drainage culvert through the levee, 11.6 feet below the crown. Slide gate in a concrete box on the waterside (WS) slope. (3-foot by 4-foot culvert [HLM 7.73] authorized under Automatic Board Order (ABO) issued as Permit No. 9532, 1974 - Martin). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 7.73)].
FS Date: 4/26/2017 2:38:29 PM

LM Start	7.72	Rating **	M	Issue No.	160 (cont)
LM End	7.72	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_51695_77008.jpg



Depression around WS concrete box

Photo 2 of 3 : UCIP_FA_2018_51695_77009.jpg



depression around WS concrete box

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	7.72	Rating **	M	Issue No.	160 (cont)	
LM End	7.72	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.239458 °	39.239458 °	
				-121.993398 °	-121.993398 °	
DWR ID	17301					
Comment Code						
Inspector Comment						
FS_ID:51695 DS_ID:17301 EP_NO: 9532 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/19/2017 Abandoned- erosion/depression present around the WS box (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned and erosion still present near WS box.(DWR Sutter Yard-AFreitag)6/1/2016 Appears to be an abandoned crossing.4/1/2015 Silted concrete box on WS. Depression/erosion around concrete box on WS.Silted concrete box on WS. Depression/erosion around concrete box on WS.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED* 36-inch by 48-inch reinforced concrete box drainage culvert through the levee, 11.6 feet below the crown. Slide gate in a concrete box on the waterside (WS) slope. (3-foot by 4-foot culvert [HLM 7.73] authorized under Automatic Board Order (ABO) issued as Permit No. 9532, 1974 - Martin). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 7.73)]. FS Date: 4/26/2017 2:38:29 PM						

Photo 3 of 3 : UCIP_FA_2018_51695_77010.jpg



WS concrete box full of silt.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	8.32	Rating **	M	Issue No.	161	
LM End	8.32	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.246317 °	39.246317 °	
				-121.998825 °	-121.998825 °	
DWR ID	17304					
Comment Code						
Inspector Comment						
FS_ID:51698 DS_ID:17304 EP_NO: 9529 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/19/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- A Freitag)10/31/2016 Abandoned (DWR Sutter Yard- A Freitag)6/1/2016 Abandoned- only WS riser and slide gate found.4/1/2015 CMP riser and slide gate on WS. LS distribution box is silted in. Looks abandoned. CMP riser with slide gate on WS. Concrete distribution box on LS- full with silt.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, invert 12.8 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete box at the landside (LS) toe. (24-inch pipe [HLM 8.35] authorized under Automatic Board Order (ABO) issued as Permit No. 9529, 1974 - Dorwood Ranching Company). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.35)]. FS Date: 4/26/2017 2:54:54 PM						

LM Start	8.32	Rating **	M	Issue No.	161 (cont)
LM End	8.32	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_51698_47202.jpg



Crown view: overview (both sides of the levee)

Photo 2 of 3 : UCIP_FA_2018_51698_47201.jpg



Waterside view: overview of CMP riser

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	8.32	Rating **	M	Issue No.	161 (cont)	
LM End	8.32	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.246317 °		39.246317 °
				-121.998825 °		-121.998825 °
DWR ID	17304					
Comment Code						
Inspector Comment						
FS_ID:51698 DS_ID:17304 EP_NO: 9529 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/19/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned (DWR Sutter Yard- AFreitag)6/1/2016 Abandoned- only WS riser and slide gate found.4/1/2015 CMP riser and slide gate on WS. LS distribution box is silted in. Looks abandoned. CMP riser with slide gate on WS. Concrete distribution box on LS- full with silt.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, invert 12.8 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete box at the landside (LS) toe. (24-inch pipe [HLM 8.35] authorized under Automatic Board Order (ABO) issued as Permit No. 9529, 1974 - Dorwood Ranching Company). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.35)]. FS Date: 4/26/2017 2:54:54 PM						

Photo 3 of 3 : UCIP_FA_2018_51698_47200.jpg



Landside view: overview of concrete box

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	8.38	Rating **	M	Issue No.	162	
LM End	8.38	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.247098 °	39.247098 °	
				-121.999055 °	-121.999055 °	
DWR ID	17338					
Comment Code						
Inspector Comment						
FS_ID:51724 DS_ID:17338 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 4/19/2017 Still only LS airvent found. (DWR Sutter Yard- Afreitag)10/31/2016 Only the LS standpipe and airvent found.6/1/2016 Still only the vaccum breaker on LS shoulder visible.4/1/2015 Only vacuum breaker found on LS shoulder.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection. FIELD_STRUCT_DESC: Pipe of unknown diameter, purpose and material through the levee, at an unknown depth below the crown, not found. Vacuum breaker inside steel standpipe on the landside (LS) shoulder, found in 2015. [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 5/1/2017 8:31:33 AM						

LM Start	8.38	Rating **	M	Issue No.	162 (cont)
LM End	8.38	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_51724_47206.jpg



Waterside view: overview

Photo 2 of 3 : UCIP_FA_2018_51724_47205.jpg



Waterside view: vacuum breaker inside a steel pipe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	8.38	Rating **	M	Issue No.	162 (cont)	
LM End	8.38	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.247098 °	39.247098 °	
				-121.999055 °	-121.999055 °	
DWR ID	17338					
Comment Code						
Inspector Comment						
FS_ID:51724 DS_ID:17338 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 4/19/2017 Still only LS airvent found. (DWR Sutter Yard- Afreitag)10/31/2016 Only the LS standpipe and airvent found.6/1/2016 Still only the vaccum breaker on LS shoulder visible.4/1/2015 Only vacuum breaker found on LS shoulder.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection. FIELD_STRUCT_DESC: Pipe of unknown diameter, purpose and material through the levee, at an unknown depth below the crown, not found. Vacuum breaker inside steel standpipe on the landside (LS) shoulder, found in 2015. [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 5/1/2017 8:31:33 AM						

Photo 3 of 3 : UCIP_FA_2018_51724_47204.jpg



Landside view: overview (no pipes)

* Location
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

** Rating
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	8.52	Rating **	A/W	Issue No.	163
LM End	8.52	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.249125°	39.249125°
				-121.999031°	-121.999031°
DWR ID	17295				

Comment Code

Inspector Comment

FS_ID:51725
DS_ID:17295
EP_NO: 9529
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 09/21/2017 Permit review indicates this 24-inch pipe was authorized as an irrigation and drainage pipe under ABO issued as Permit No. 9529, structure description was updated. Structure type logged as drainage. (DWR UCIP - O. Magana)
4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)6/13/2016 Pipe was exposed and camera inspected by Nor-Cal Pipeline Services 10/29/2015. Photos of the exposed pipe ends were uploaded on 4/1/2015. The internal inspection showed some signs of rust but no visible holes or deterioration were found. After the inspection the pipe ends were capped and reburied.6/9/2016 Khalida Fazel of UCIP requests that any photos of the pipe when it was exposed for a video inspection be kindly uploaded here.4/4/2016 Proper abandonment of pipe is needed. Pipe has been buried again after it was dug up and video inspected, so was not visible on LS. Note that landowner has regraded LS slope so drainage is now to the east (toward LS).4/1/2015 Both WS and LS pipe ends have been dug up in preparation for an internal camera inspection. Pipe shows signs of heavy rust and both ends of pipe are plugged with soil.Only a CMP riser with slide gate found on WS.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch irrigation and drainage pipe through the levee, invert 11.5 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. (24-inch pipe [HLM 8.55] authorized under Automatic Board Order (ABO) issued as Permit No. 9529, 1974 - Dorwood Ranching Co.) [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.55)]
FS Date: 5/1/2017 8:37:22 AM

Photo 1 of 3 : UCIP_FA_2018_51725_47208.jpg



Waterside view: overview of CMP riser

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	8.52	Rating **	A/W	Issue No.	163 (cont)	
LM End	8.52	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.249125 °	39.249125 °	
				-121.999031 °	-121.999031 °	
DWR ID	17295					

Comment Code

Inspector Comment

FS_ID:51725
DS_ID:17295
EP_NO: 9529
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 09/21/2017 Permit review indicates this 24-inch pipe was authorized as an irrigation and drainage pipe under ABO issued as Permit No. 9529, structure description was updated. Structure type logged as drainage. (DWR UCIP - O. Magana)
4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)6/13/2016 Pipe was exposed and camera inspected by Nor-Cal Pipeline Services 10/29/2015. Photos of the exposed pipe ends were uploaded on 4/1/2015. The internal inspection showed some signs of rust but no visible holes or deterioration were found. After the inspection the pipe ends were capped and reburied.6/9/2016 Khalida Fazel of UCIP requests that any photos of the pipe when it was exposed for a video inspection be kindly uploaded here.4/4/2016 Proper abandonment of pipe is needed. Pipe has been buried again after it was dug up and video inspected, so was not visible on LS. Note that landowner has regraded LS slope so drainage is now to the east (toward LS).4/1/2015 Both WS and LS pipe ends have been dug up in preparation for an internal camera inspection. Pipe shows signs of heavy rust and both ends of pipe are plugged with soil.Only a CMP riser with slide gate found on WS.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch irrigation and drainage pipe through the levee, invert 11.5 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. (24-inch pipe [HLM 8.55] authorized under Automatic Board Order (ABO) issued as Permit No. 9529, 1974 - Dorwood Ranching Co.) [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.55)]
FS Date: 5/1/2017 8:37:22 AM

Photo 2 of 3 : UCIP_FA_2018_51725_47207.jpg



Landside view: overview (no pipes)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	8.52	Rating **	A/W	Issue No.	163 (cont)	
LM End	8.52	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.249125 °		39.249125 °
				-121.999031 °		-121.999031 °
DWR ID	17295					

Comment Code

Inspector Comment

FS_ID:51725

DS_ID:17295

EP_NO: 9529

Repair Type: No Action Needed

Crossing Status: Found

UCIP Comments: 09/21/2017 Permit review indicates this 24-inch pipe was authorized as an irrigation and drainage pipe under ABO issued as Permit No. 9529, structure description was updated. Structure type logged as drainage. (DWR UCIP - O. Magana)

4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)6/13/2016 Pipe was exposed and camera inspected by Nor-Cal Pipeline Services 10/29/2015. Photos of the exposed pipe ends were uploaded on 4/1/2015. The internal inspection showed some signs of rust but no visible holes or deterioration were found. After the inspection the pipe ends were capped and reburied.6/9/2016 Khalida Fazel of UCIP requests that any photos of the pipe when it was exposed for a video inspection be kindly uploaded here.4/4/2016 Proper abandonment of pipe is needed. Pipe has been buried again after it was dug up and video inspected, so was not visible on LS. Note that landowner has regraded LS slope so drainage is now to the east (toward LS).4/1/2015 Both WS and LS pipe ends have been dug up in preparation for an internal camera inspection. Pipe shows signs of heavy rust and both ends of pipe are plugged with soil.Only a CMP riser with slide gate found on WS.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.

FIELD_STRUCT_DESC: *ABANDONED* 24-inch irrigation and drainage pipe through the levee, invert 11.5 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. (24-inch pipe [HLM 8.55] authorized under Automatic Board Order (ABO) issued as Permit No. 9529, 1974 - Dorwood Ranching Co.) [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.55)]

FS Date: 5/1/2017 8:37:22 AM

Photo 3 of 3 : UCIP_FA_2018_51725_73640.jpg



WS pipe end

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	8.56	Rating **	M	Issue No.	164
LM End	8.56	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.249678 °	39.249678 °	
			-121.999021 °	-121.999021 °	
DWR ID	17327				

Comment Code

Inspector Comment

FS_ID:51726
DS_ID:17327
EP_NO: 9528
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)6/13/2016 Pipe was internally cleaned and camera inspected by Nor-Cal Pipeline Services on 10/29/2015. Pipe length through levee is 75.1ft long. The inspection showed some signs of rust but no holes or other deterioration were found. Pics of exposed pipe ends were uploaded on 4/1/2015. After the inspection the pipe ends were capped and reburied.4/14/2016- Same as last inspection.4/1/2015- Both ends of pipe have been dug up in preparation for internal camera inspections. Pipe shows some rust but appears to be in decent shape. Only buried slide gate structure found.6/30/2014- Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 12.5 feet below the crown. Slide gate on the waterside (WS). (Automatic Board Order (ABO) issued as Permit No. 9528, 1974 - Lamb). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.59)].
FS Date: 5/1/2017 8:51:02 AM

LM Start	8.56	Rating **	M	Issue No.	164 (cont)
LM End	8.56	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_51726_47210.jpg



Waterside view: overview

Photo 2 of 3 : UCIP_FA_2018_51726_47209.jpg



Waterside view: buried slide gate

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

DWR Start	8.56	Rating **	M	Issue No.	164 (cont)	
LM End	8.56	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.249678 °	39.249678 °	
				-121.999021 °	-121.999021 °	
DWR ID	17327					
Comment Code						
Inspector Comment						
FS_ID:51726 DS_ID:17327 EP_NO: 9528 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)6/13/2016 Pipe was internally cleaned and camera inspected by Nor-Cal Pipeline Services on 10/29/2015. Pipe length through levee is 75.1ft long. The inspection showed some signs of rust but no holes or other deterioration were found. Pics of exposed pipe ends were uploaded on 4/1/2015. After the inspection the pipe ends were capped and reburied.4/14/2016- Same as last inspection.4/1/2015- Both ends of pipe have been dug up in preparation for internal camera inspections. Pipe shows some rust but appears to be in decent shape. Only buried slide gate structure found.6/30/2014- Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 12.5 feet below the crown. Slide gate on the waterside (WS). (Automatic Board Order (ABO) issued as Permit No. 9528, 1974 - Lamb). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.59)]. FS Date: 5/1/2017 8:51:02 AM						

Photo 3 of 3 : UCIP_FA_2018_51726_73649.jpg



WS pipe end

LM Start	8.59	Rating **	M	Issue No.	112
LM End	8.59	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.250190 °	39.250190 °
				-121.998858 °	-121.998858 °
DWR ID	DWR_ST0003_01_s_2018_112				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

Photo 1 of 1 : FA_2018_ST0003_264_112_20180905_00026.jpg



View of the prunings along the landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	8.65	Rating **	M	Issue No.	94
LM End	8.65	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.250774 °	39.250774 °
				-121.998242 °	-121.998242 °
DWR ID	DWR_ST0003_01_f_2016_94				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

LM Start	8.70	Rating **	M	Issue No.	165
LM End	8.70	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.251504 °	39.251504 °
				-121.997879 °	-121.997879 °
DWR ID	17352				
Comment Code					
Inspector Comment					
FS_ID:51728 DS_ID:17352 EP_NO: 9523 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)6/13/2016 Abandoned crossing.4/14/2016 Appears abandoned and if so, should be done so properly. Borrowing activity on landside (LS).8/28/2015 Pipe has been dug up and located along the WS levee toe.6/30/2014 Unable to locate.12/18/2013 Unable to locate.7/23/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: *ABANDONED* 10-inch concrete encased steel drainage pipe through the levee, invert 15 feet below the crown, not found in 2016. Gate valve in a 42-inch corrugated metal pipe riser on the waterside (WS) slope, found in 2016. (10-inch pipe [HLM 8.7] authorized under Automatic Board Order (ABO) issued as Permit No. 9523, 1974 - Blackmore). Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.7)]. FS Date: 5/1/2017 8:59:37 AM					

Photo 1 of 3 : UCIP_FA_2018_51728_74662.jpg



View of LS

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	8.70	Rating **	M	Issue No.	165 (cont)	
LM End	8.70	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.251504 °	39.251504 °	
				-121.997879 °	-121.997879 °	
DWR ID	17352					
Comment Code						
Inspector Comment						
FS_ID:51728 DS_ID:17352 EP_NO: 9523 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)6/13/2016 Abandoned crossing.4/14/2016 Appears abandoned and if so, should be done so properly. Borrowing activity on landside (LS).8/28/2015 Pipe has been dug up and located along the WS levee toe.6/30/2014 Unable to locate.12/18/2013 Unable to locate.7/23/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: *ABANDONED* 10-inch concrete encased steel drainage pipe through the levee, invert 15 feet below the crown, not found in 2016. Gate valve in a 42-inch corrugated metal pipe riser on the waterside (WS) slope, found in 2016. (10-inch pipe [HLM 8.7] authorized under Automatic Board Order (ABO) issued as Permit No. 9523, 1974 - Blackmore).Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.7)]. FS Date: 5/1/2017 8:59:37 AM						

LM Start	8.70	Rating **	M	Issue No.	165 (cont)
LM End	8.70	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2018_51728_74661.jpg



42-inch riser on WS shoulder.

Photo 3 of 3 : UCIP_FA_2018_51728_74660.jpg



View from crown of levee looking downstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	8.75	Rating **	U	Issue No.	166
LM End	8.75	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.252121°	39.252121°
				-121.997740°	-121.997740°
DWR ID	17353				
Comment Code					
Inspector Comment					
FS_ID:53402 DS_ID:17353 EP_NO: 4491 Repair Type: Urgent Crossing Status: Found UCIP Comments: 8/30/2018 Same as last inspection; could not find LS pipe end so recommend internal pipe inspection. Crossing to remain Urgent (D. Sanoski - DWR UCIP).4/19/2017 4in. pipe still showing signs of deterioration near WS toe. (DWR Sutter Yard- Afreitag)10/31/2016 Pipe still exposed along the WS toe and is rusted and corroded. If it is still in use by the owner then it should be rebuilt.(DWR Sutter Yard- Afreitag)6/13/2016 Pipe was dug up on WS and photographed. It was originally selected for internal inspection but was unable to be as there was no access to the inside of the 4" pipe. (DWR Sutter Yard - afreitag)4/14/2016 Signs of corrosion on pipe and valve on LS. Pipe in use according to Bryan Reniff of Sutter Yard. (DWR UCIP - kfazel)8/28/2015 Pipe was dug up and located on the WS levee toe. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/23/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/11/2012 Only abandoned slide gate found on WS. (DWR UCIP - pamatya) FIELD_STRUCT_DESC: 4-inch steel drainage pipe sleeved through 24-inch corrugated metal pipe through the levee, 16.7 feet below the crown. Annular space has been pressure grouted. Slide gate on the waterside (WS) end. Gate valve at the landside (LS) toe. (Permit No. 4491, 1964 - Blackmore). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.74)]. FS Date: 8/30/2018 4:27:57 PM					

Photo 1 of 3 : UCIP_FA_2018_53402_47216.jpg



Waterside view: overview of slide gate on steel structure (belongs to crossing at CLM-8.782)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	8.75	Rating **	U	Issue No.	166 (cont)	
LM End	8.75	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.252121°	39.252121°	
				-121.997740°	-121.997740°	
DWR ID	17353					
Comment Code						
Inspector Comment						
FS_ID:53402 DS_ID:17353 EP_NO: 4491 Repair Type: Urgent Crossing Status: Found UCIP Comments: 8/30/2018 Same as last inspection; could not find LS pipe end so recommend internal pipe inspection. Crossing to remain Urgent (D. Sanoski - DWR UCIP).4/19/2017 4in. pipe still showing signs of deterioration near WS toe. (DWR Sutter Yard-Afreitag)10/31/2016 Pipe still exposed along the WS toe and is rusted and corroded. If it is still in use by the owner then it should be rebuilt.(DWR Sutter Yard- Afreitag)6/13/2016 Pipe was dug up on WS and photographed. It was originally selected for internal inspection but was unable to be as there was no access to the inside of the 4" pipe. (DWR Sutter Yard - afreitag)4/14/2016 Signs of corrosion on pipe and valve on LS. Pipe in use according to Bryan Reniff of Sutter Yard. (DWR UCIP - kfazel)8/28/2015 Pipe was dug up and located on the WS levee toe. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/23/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/11/2012 Only abandoned slide gate found on WS. (DWR UCIP - pamatya) FIELD_STRUCT_DESC: 4-inch steel drainage pipe sleeved through 24-inch corrugated metal pipe through the levee, 16.7 feet below the crown. Annular space has been pressure grouted. Slide gate on the waterside (WS) end. Gate valve at the landside (LS) toe. (Permit No. 4491, 1964 - Blackmore). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.74)]. FS Date: 8/30/2018 4:27:57 PM						

Photo 2 of 3 : UCIP_FA_2018_53402_47215.jpg



Waterside view: slide gate on steel structure (belongs to crossing at CLM-8.782)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	8.75	Rating **	U	Issue No.	166 (cont)	
LM End	8.75	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.252121 °	39.252121 °	
				-121.997740 °	-121.997740 °	
DWR ID	17353					
Comment Code						
Inspector Comment						
FS_ID:53402 DS_ID:17353 EP_NO: 4491 Repair Type: Urgent Crossing Status: Found UCIP Comments: 8/30/2018 Same as last inspection; could not find LS pipe end so recommend internal pipe inspection. Crossing to remain Urgent (D. Sanoski - DWR UCIP).4/19/2017 4in. pipe still showing signs of deterioration near WS toe. (DWR Sutter Yard-Afreitag)10/31/2016 Pipe still exposed along the WS toe and is rusted and corroded. If it is still in use by the owner then it should be rebuilt.(DWR Sutter Yard- Afreitag)6/13/2016 Pipe was dug up on WS and photographed. It was originally selected for internal inspection but was unable to be as there was no access to the inside of the 4" pipe. (DWR Sutter Yard - afreitag)4/14/2016 Signs of corrosion on pipe and valve on LS. Pipe in use according to Bryan Reniff of Sutter Yard. (DWR UCIP - kfazel)8/28/2015 Pipe was dug up and located on the WS levee toe. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/23/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/11/2012 Only abandoned slide gate found on WS. (DWR UCIP - pamatya) FIELD_STRUCT_DESC: 4-inch steel drainage pipe sleeved through 24-inch corrugated metal pipe through the levee, 16.7 feet below the crown. Annular space has been pressure grouted. Slide gate on the waterside (WS) end. Gate valve at the landside (LS) toe. (Permit No. 4491, 1964 - Blackmore). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.74)]. FS Date: 8/30/2018 4:27:57 PM						

Photo 3 of 3 : UCIP_FA_2018_53402_47214.jpg



Waterside view: close view of slide gate (belongs to crossing at CLM-8.782)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	8.75	Rating **	U	Issue No.	2
LM End	8.75	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.252260 °	39.252260 °
				-121.997721 °	-121.997721 °
DWR ID	DWR_ST0003_01_s_2012_2				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA_2018_ST0003_264_2_20180905_00002.jpg



View of the building next to the toe of the levee.

LM Start	8.92	Rating **	N	Issue No.	92
LM End	8.92	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.254563 °	39.254563 °
				-121.997493 °	-121.997493 °
DWR ID	DWR_ST0003_01_f_2016_92				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

LM Start	9.03	Rating **	M	Issue No.	122
LM End	9.03	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.256140 °	39.256140 °
				-121.997787 °	-121.997787 °
DWR ID	DWR_ST0003_01_s_2017_122				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	9.03	Rating **	N	Issue No.	91
LM End	9.03	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.256141°	39.256141°
				-121.997785°	-121.997785°
DWR ID	DWR_ST0003_01_f_2016_91				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

LM Start	9.17	Rating **	N	Issue No.	90
LM End	9.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.257688°	39.257688°
				-121.999331°	-121.999331°
DWR ID	DWR_ST0003_01_f_2016_90				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

LM Start	9.23	Rating **	C	Issue No.	89
LM End	9.23	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.257989°	39.257989°
				-122.000367°	-122.000367°
DWR ID	DWR_ST0003_01_f_2016_89				
Comment Code					
PR : Prunings					
Inspector Comment					
The prunings were removed from the landside toe.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	9.37	Rating **	A/W	Issue No.	167
LM End	9.37	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.260034 °	39.260034 °	
			-122.000970 °	-122.000970 °	
DWR ID	17355				

Comment Code

Inspector Comment

FS_ID:51731
DS_ID:17355
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)6/13/2016 Pipe was internally cleaned and camera inspected on 10/30/2015 by Nor-Cal Pipeline Services. WS cap was removed and 100.6ft of pipe were inspected starting from the WS opening. Inspection revealed rusting but no visible holes or other deterioration were found. Pipe was recapped after the inspection. This pipe is always visible so no new photos were taken during the inspection.6/9/2016 Khalida Fazel of UCIP requests that any photos of the pipe when it was exposed for a video inspection be kindly uploaded here.4/1/2015 Pipe is in same condition. It has been selected for an internal camera inspection. New CMP pipe on WS capped with steel plate.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown. Slide gate on the landside (LS) headwall. Steel plate welded on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 9.4)].
FS Date: 5/1/2017 9:16:26 AM

LM Start	9.37	Rating **	A/W	Issue No.	167 (cont)
LM End	9.37	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_51731_47242.jpg



Waterside view: overview

Photo 2 of 3 : UCIP_FA_2018_51731_47241.jpg



Waterside view: overview of CMP pipe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	9.37	Rating **	A/W	Issue No.	167 (cont)	
LM End	9.37	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.260034 °	39.260034 °	
				-122.000970 °	-122.000970 °	
DWR ID	17355					
Comment Code						
Inspector Comment						
FS_ID:51731						
DS_ID:17355						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)6/13/2016 Pipe was internally cleaned and camera inspected on 10/30/2015 by Nor-Cal Pipeline Services. WS cap was removed and 100.6ft of pipe were inspected starting from the WS opening. Inspection revealed rusting but no visible holes or other deterioration were found. Pipe was recapped after the inspection. This pipe is always visible so no new photos were taken during the inspection.6/9/2016 Khalida Fazel of UCIP requests that any photos of the pipe when it was exposed for a video inspection be kindly uploaded here.4/1/2015 Pipe is in same condition. It has been selected for an internal camera inspection. New CMP pipe on WS capped with steel plate.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.						
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown. Slide gate on the landside (LS) headwall. Steel plate welded on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 9.4)].						
FS Date: 5/1/2017 9:16:26 AM						

Photo 3 of 3 : UCIP_FA_2018_51731_47240.jpg



Waterside view: capped CMP pipe

LM Start	9.74	Rating **	M	Issue No.	113	
LM End	9.74	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			39.264740 °		39.264740 °
				-121.998288 °		-121.998288 °
DWR ID	DWR_ST0003_01_s_2018_113					
Comment Code						
PR : Prunings						
Inspector Comment						
Remove the prunings from the landside toe.						

Photo 1 of 1 : FA_2018_ST0003_264_113_20180905_00027.jpg



View of the prunings along the landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	10.32	Rating **	M	Issue No.	1
LM End	10.41	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			39.331447 °	39.332716 °
				-122.029440 °	-122.029953 °
DWR ID	DWR_ST0003_01_f_2018_1				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 157.7 R					
Status: Eroding					
2017 Field Notes: Vertical face of clay sand bank, new tree popout.					
Bank continues to erode.					
Site History: 2004 - Slowly eroding but near vertical with no vegetation to hold it. 2005 - Erosion is close to levee toe but not into the levee section yet. 2010 - Some new toe scour.					

Photo 1 of 1 : FA_2018_ST0003_264_1_20180905_00001.jpg



USACE 2013 Photo #1

LM Start	10.35	Rating **	A/W	Issue No.	168
LM End	10.35	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.270492 °	39.270492 °
				-122.001306 °	-122.001306 °
DWR ID	17358				
Comment Code					
Inspector Comment					
FS_ID:51734 DS_ID:17358 EP_NO: 9517 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 4/19/2017 No WS end found/ slide gate handle broken. (DWR Sutter Yard- Afreitag)10/31/2016 Slide gate handle is broken and no WS pipe end can be located. (DWR Sutter Yard-Afreitag)6/1/2016 WS slide gate handle is still broken. No WS pipe end was found.4/1/2015 Slide gate handle is still broken. The rest of the pipe appears in good condition. Broken slide gate handle found on WS.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection. FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Slide gate in a concrete distribution box on the landside (LS) toe. (48-inch pipe [HLM 10.39] authorized under Automatic Board Order (ABO) issued as Permit No. 9517, 1974 - Griffin). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 10.47)]. FS Date: 5/1/2017 9:32:45 AM					

Photo 1 of 3 : UCIP_FA_2018_51734_47263.jpg



Crown view: overview (both sides of the levee)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	10.35	Rating **	A/W	Issue No.	168 (cont)	
LM End	10.35	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.270492 °	39.270492 °	
				-122.001306 °	-122.001306 °	
DWR ID	17358					
Comment Code						
Inspector Comment						
FS_ID:51734 DS_ID:17358 EP_NO: 9517 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 4/19/2017 No WS end found/ slide gate handle broken. (DWR Sutter Yard- Afreitag)10/31/2016 Slide gate handle is broken and no WS pipe end can be located. (DWR Sutter Yard-Afreitag)6/1/2016 WS slide gate handle is still broken. No WS pipe end was found.4/1/2015 Slide gate handle is still broken. The rest of the pipe appears in good condition. Broken slide gate handle found on WS.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection. FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Slide gate in a concrete distribution box on the landside (LS) toe. (48-inch pipe [HLM 10.39] authorized under Automatic Board Order (ABO) issued as Permit No. 9517, 1974 - Griffin). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 10.47)]. FS Date: 5/1/2017 9:32:45 AM						

LM Start	10.35	Rating **	A/W	Issue No.	168 (cont)
LM End	10.35	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2018_51734_47262.jpg



Waterside view: overview of CMP riser

Photo 3 of 3 : UCIP_FA_2018_51734_47268.jpg



Waterside view: inside CMP riser

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	10.36	Rating **	M	Issue No.	5
LM End	10.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.270503 °	39.270503 °
				-122.001339 °	-122.001339 °
DWR ID	DWR_ST0003_01_s_2012_5				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
The Elderberry is partially blocking visibility.					

No Photos

LM Start	10.51	Rating **	M	Issue No.	169
LM End	10.51	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.271928 °	39.271928 °
				-122.003422 °	-122.003422 °
DWR ID	17371				
Comment Code					
Inspector Comment					
FS_ID:51735 DS_ID:17371 EP_NO: 9517 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)6/1/2016 Abandoned crossing.4/2/2015 Same as last inspection. Need to verify type of abandonment. Pump house not found on waterside of the levee. Looks abandoned as switch panel found without pump.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED* 18-inch steel irrigation pipe through the levee, 17.1 feet below the crown. Gate valve and flap gate in a concrete distribution box. Water meter in a corrugated metal pipe (CMP) riser at the landside (LS) toe. Gate valve in a CMP on the waterside (WS). Pipe was replaced in November 2005. (Automatic Board Order (ABO) issued as Permit No. 9517, 1974 - Griffin). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 10.53)]. FS Date: 5/1/2017 9:39:39 AM					

Photo 1 of 3 : UCIP_FA_2018_51735_47270.jpg



Waterside view: CMP riser and abandoned service pole

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	10.51	Rating **	M	Issue No.	169 (cont)
LM End	10.51	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.271928 °	39.271928 °
				-122.003422 °	-122.003422 °
DWR ID	17371				

Comment Code

Inspector Comment

FS_ID:51735
DS_ID:17371
EP_NO: 9517
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)6/1/2016 Abandoned crossing.4/2/2015 Same as last inspection. Need to verify type of abandonment. Pump house not found on waterside of the levee. Looks abandoned as switch panel found without pump.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 18-inch steel irrigation pipe through the levee, 17.1 feet below the crown. Gate valve and flap gate in a concrete distribution box. Water meter in a corrugated metal pipe (CMP) riser at the landside (LS) toe. Gate valve in a CMP on the waterside (WS). Pipe was replaced in November 2005. (Automatic Board Order (ABO) issued as Permit No. 9517, 1974 - Griffin).
[Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 10.53)].
FS Date: 5/1/2017 9:39:39 AM

LM Start	10.51	Rating **	M	Issue No.	169 (cont)
LM End	10.51	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2018_51735_47269.jpg



Waterside view: CMP riser with gate valve

Photo 3 of 3 : UCIP_FA_2018_51735_47273.jpg



Waterside view: abandoned pump station.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	10.69	Rating **	M	Issue No.	170
LM End	10.69	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.274090°	39.274090°
				-122.005263°	-122.005263°
DWR ID	17350				
Comment Code					
Inspector Comment					
FS_ID:51737 DS_ID:17350 EP_NO: 1369 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- A Freitag)10/31/2016 Appears abandoned. (DWR Sutter Yard- A Freitag)6/1/2016 Appears to be an abandoned crossing.4/2/2015 Same as last inspection. Looks abandoned and if so should be done so properly. Pump and switch panel not found. Outlet pipe blocked by silt and debris.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED* 24-inch steel irrigation pipe through the levee, 4 feet below the crown. Siphon breaker on the landside (LS) slope. Concrete distribution box on the LS toe. (Permit No. 1369, 1949 - Griffin). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 10.68)]. FS Date: 5/1/2017 9:44:43 AM					

LM Start	10.69	Rating **	M	Issue No.	170 (cont)
LM End	10.69	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_51737_47284.jpg



Crown view: overview (both sides of the levee)

Photo 2 of 3 : UCIP_FA_2018_51737_47283.jpg



Waterside view: overview of exposed steel pipe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	10.69	Rating **	M	Issue No.	170 (cont)
LM End	10.69	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.274090 °	39.274090 °
				-122.005263 °	-122.005263 °
DWR ID	17350				

Comment Code

Inspector Comment

FS_ID:51737
DS_ID:17350
EP_NO: 1369
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- AFreitag)10/31/2016 Appears abandoned. (DWR Sutter Yard- AFreitag)6/1/2016 Appears to be an abandoned crossing.4/2/2015 Same as last inspection. Looks abandoned and if so should be done so properly. Pump and switch panel not found. Outlet pipe blocked by silt and debris.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch steel irrigation pipe through the levee, 4 feet below the crown. Siphon breaker on the landside (LS) slope. Concrete distribution box on the LS toe. (Permit No. 1369, 1949 - Griffin). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 10.68)].
FS Date: 5/1/2017 9:44:43 AM

Photo 3 of 3 : UCIP_FA_2018_51737_47287.jpg



Waterside view: beyond exposed steel pipe (not accessible)

LM Start	11.53	Rating **	M	Issue No.	8
LM End	11.79	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			39.279910 °	39.283853 °
				-122.018221 °	-122.016113 °
DWR ID	DWR_ST0003_01 f 2018 8				

Comment Code

Inspector Comment

2017 Site ID: SAC 152.6 L
Status: Eroding
2017 Field Notes: Access Issues - Could not observe
Site History: 2008 - Large rotational/mass failure in the bank with tree slump. 2009 - Minimal new erosion, the tree is leaning further into the river. 2011 - Site extended downstream. 2012 - Minor new erosion and tree roots are further exposed.

Photo 1 of 1 : FA_2018_ST0003_264_8_20180905_00006.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	11.67	Rating **	M	Issue No.	6
LM End	11.90	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.282064 °	39.285084 °
				-122.016517 °	-122.014815 °
DWR ID	DWR_ST0003_01_s_2012_6				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA_2018_ST0003_264_6_20180905_00004.jpg



View of the ditch along the landside toe.

LM Start	11.85	Rating **	M	Issue No.	13
LM End	11.90	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			39.284568 °	39.285298 °
				-122.015690 °	-122.015208 °
DWR ID	DWR_ST0003_01_f_2018_13				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 152.8 L					
Status: Eroding					
2017 Field Notes: Minor new erosion observed.					
Site History: 2006 - Large rotational/mass failure in the bank with tree slump. Tough clayey toe material. 2007 - Site is between stone revetments with a pump station at the downstream end. 2010 - Erosion is into the levee toe. 2011 - Minor new erosion. 2012 - Minor new erosion.					

Photo 1 of 1 : FA_2018_ST0003_264_13_20180905_00010.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	11.94	Rating **	M	Issue No.	7
LM End	12.18	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.285658 °	39.288978 °
				-122.014574 °	-122.013892 °
DWR ID	DWR_ST0003_01_s_2012_7				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA_2018_ST0003_264_7_20180905_00005.jpg



View of the ditch along the landside toe.

LM Start	12.06	Rating **	M	Issue No.	171
LM End	12.06	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.287251 °	39.287251 °
				-122.014076 °	-122.014076 °
DWR ID	17365				
Comment Code					
Inspector Comment					
FS_ID:51743 DS_ID:17365 EP_NO: 9514 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/19/2017 Crossing appears to be in good condition. (DWR Sutter Yard- Afreitag)10/31/2016 Crossing appears to be in good condition.(DWR Sutter Yard- Afreitag)6/6/2016 Crossing appears to be in good condition. New wooden cover was made for WS surge tank.4/2/2015 Everything looked to be in good condition. Concrete surge tank still has some silting. Gate valve in CMP riser not visible. Flap gate in concrete distribution box on LS not visible/accessible. Looks like cleaning required inside concrete surge tank on WS due to silting.7/2/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Pump running and WS surge tank was full of water so not sure if silt was cleaned out. LS flap gate was visible and is in good condition. FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 18.1 feet below the crown. Pump house on the waterside (WS) slope. Gate valve in a corrugated metal riser on the WS toe. Flap gate in a concrete distribution box at the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9514, 1974 - Boggs). [Additional Reference(s): Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.05)]. FS Date: 5/1/2017 9:57:28 AM					

Photo 1 of 3 : UCIP_FA_2018_51743_47306.jpg



Waterside view: overview pipe, pump, surge box & CMP riser

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	12.06	Rating **	M	Issue No.	171 (cont)
LM End	12.06	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.287251 °	39.287251 °
				-122.014076 °	-122.014076 °
DWR ID	17365				

Comment Code

Inspector Comment

FS_ID:51743
DS_ID:17365
EP_NO: 9514
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/19/2017 Crossing appears to be in good condition.
(DWR Sutter Yard- AFreitag)10/31/2016 Crossing appears to be in good condition.(DWR Sutter Yard- AFreitag)6/6/2016 Crossing appears to be in good condition. New wooden cover was made for WS surge tank.4/2/2015 Everything looked to be in good condition. Concrete surge tank still has some silting. Gate valve in CMP riser not visible. Flap gate in concrete distribution box on LS not visible/accessible. Looks like cleaning required inside concrete surge tank on WS due to silting.7/2/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Pump running and WS surge tank was full of water so not sure if silt was cleaned out. LS flap gate was visible and is in good condition. FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 18.1 feet below the crown. Pump house on the waterside (WS) slope. Gate valve in a corrugated metal riser on the WS toe. Flap gate in a concrete distribution box at the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9514, 1974 - Boggs). [Additional Reference(s): Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.05)]. FS Date: 5/1/2017 9:57:28 AM

LM Start	12.06	Rating **	M	Issue No.	171 (cont)
LM End	12.06	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2018_51743_47305.jpg



Waterside view: steel pipe, pump, surge box & CMP riser

Photo 3 of 3 : UCIP_FA_2018_51743_47304.jpg



Waterside view: pump switch box, surge box & CMP riser

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	12.43	Rating **	M	Issue No.	172
LM End	12.43	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.292608 °	39.292608 °
				-122.013483 °	-122.013483 °
DWR ID	17366				

Comment Code

Inspector Comment

FS_ID:51744
DS_ID:17366
EP_NO: 9513
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 2.5in. GI pipe was removed and replaced with a section of 2.5in. flexible hose that can easily be removed to allow the slide gate to fully close for high water season. (DWR Sutter Yard- Afreitag)10/31/2016 2.5in. pipe still blocking the screwgate. (DWR Sutter Yard- Afreitag)6/6/2016 2.5inch pipe still present through crossing. (DWR Sutter Yard - afreitag)4/14/2016 2.5-inch pipe still preventing slide gate from fully closing on WS. Recommend LMA contact owner to address removal of unauthorized 2.5-inch pipe. Owner must either contact CVFPB for permitting of 2.5-inch pipe or remove it. (DWR UCIP - kfazel)4/2/2015 2.5in pipe is still present and prevents the slide gate from fully closing. (DWR Sutter Yard - afreitag)7/2/2014 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season. (DWR Sutter Yard - afreitag)12/11/2012 A 2.5 inch GI pipe through 36 inch CMP found. A 2 inch electrical conduit also found. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee, invert 16.5 feet below the crown. Slide gate in a concrete surge box on the waterside (WS) berm. 2.5-inch pipe through the 24-inch pipe preventing closing of the slide gate on the WS. Slant pump on the riverbank. Concrete distribution box at the landside (LS) toe. 2-inch electrical conduit through the levee, visible on the WS adjacent to the walkway. (Automatic Board Order (ABO) issued as Permit No. 9513, 1974 - Boggs). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.42)].
FS Date: 5/1/2017 9:58:54 AM

Photo 1 of 3 : UCIP_FA_2018_51744_47313.jpg



Waterside view: overview of slanted pump and shed

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	12.43	Rating **	M	Issue No.	172 (cont)
LM End	12.43	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.292608 °	39.292608 °
				-122.013483 °	-122.013483 °
DWR ID	17366				

Comment Code

Inspector Comment

FS_ID:51744
DS_ID:17366
EP_NO: 9513
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 2.5in. GI pipe was removed and replaced with a section of 2.5in. flexible hose that can easily be removed to allow the slide gate to fully close for high water season. (DWR Sutter Yard- Afreitag)10/31/2016 2.5in. pipe still blocking the screwgate. (DWR Sutter Yard- Afreitag)6/6/2016 2.5inch pipe still present through crossing. (DWR Sutter Yard - afreitag)4/14/2016 2.5-inch pipe still preventing slide gate from fully closing on WS. Recommend LMA contact owner to address removal of unauthorized 2.5-inch pipe. Owner must either contact CVFPB for permitting of 2.5-inch pipe or remove it. (DWR UCIP - kfazel)4/2/2015 2.5in pipe is still present and prevents the slide gate from fully closing. (DWR Sutter Yard - afreitag)7/2/2014 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season. (DWR Sutter Yard - afreitag)12/11/2012 A 2.5 inch GI pipe through 36 inch CMP found. A 2 inch electrical conduit also found. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee, invert 16.5 feet below the crown. Slide gate in a concrete surge box on the waterside (WS) berm. 2.5-inch pipe through the 24-inch pipe preventing closing of the slide gate on the WS. Slant pump on the riverbank. Concrete distribution box at the landside (LS) toe. 2-inch electrical conduit through the levee, visible on the WS adjacent to the walkway. (Automatic Board Order (ABO) issued as Permit No. 9513, 1974 - Boggs). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.42)].
FS Date: 5/1/2017 9:58:54 AM

Photo 2 of 3 : UCIP_FA_2018_51744_47312.jpg



Waterside view: pump station and walkway

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	12.43	Rating **	M	Issue No.	172 (cont)
LM End	12.43	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.292608 °	39.292608 °
				-122.013483 °	-122.013483 °
DWR ID	17366				

Comment Code

Inspector Comment

FS_ID:51744
 DS_ID:17366
 EP_NO: 9513
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 4/20/2017 2.5in. GI pipe was removed and replaced with a section of 2.5in. flexible hose that can easily be removed to allow the slide gate to fully close for high water season. (DWR Sutter Yard- Afreitag)10/31/2016 2.5in. pipe still blocking the screwgate. (DWR Sutter Yard- Afreitag)6/6/2016 2.5inch pipe still present through crossing. (DWR Sutter Yard - afreitag)4/14/2016 2.5-inch pipe still preventing slide gate from fully closing on WS. Recommend LMA contact owner to address removal of unauthorized 2.5-inch pipe. Owner must either contact CVFPB for permitting of 2.5-inch pipe or remove it. (DWR UCIP - kfazel)4/2/2015 2.5in pipe is still present and prevents the slide gate from fully closing. (DWR Sutter Yard - afreitag)7/2/2014 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season. (DWR Sutter Yard - afreitag)12/11/2012 A 2.5 inch GI pipe through 36 inch CMP found. A 2 inch electrical conduit also found. (DWR UCIP - pamatya)
 FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee, invert 16.5 feet below the crown. Slide gate in a concrete surge box on the waterside (WS) berm. 2.5-inch pipe through the 24-inch pipe preventing closing of the slide gate on the WS. Slant pump on the riverbank. Concrete distribution box at the landside (LS) toe. 2-inch electrical conduit through the levee, visible on the WS adjacent to the walkway. (Automatic Board Order (ABO) issued as Permit No. 9513, 1974 - Boggs). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.42)].
 FS Date: 5/1/2017 9:58:54 AM

Photo 3 of 3 : UCIP_FA_2018_51744_47311.jpg



Waterside view: steel pipe, GI pipe in concrete surge box

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	12.56	Rating **	U	Issue No.	173
LM End	12.56	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.294449 °	39.294449 °
				-122.013871 °	-122.013871 °
DWR ID	17367				

Comment Code

Inspector Comment

FS_ID:53403

DS_ID:17367

EP_NO: 2971

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 8/30/2018 Same as last inspection; large sink hole/erosion around surge box on WS so crossing remains Urgent (D. Sanoski - DWR UCIP).4/20/2017 Sink hole behind the WS surge box got a lot bigger after the high water event of Jan/Feb 2017. Pipe also had a leak during that time but not sure if it was due to the sink hole or a faulty slide gate. (DWR Sutter Yard- AFreitag)10/31/2016 No repairs have been made here yet. Sinkhole is still present at the WS surge box.(DWR Sutter Yard- AFreitag)6/6/2016 Pumps were connected to intake pipes and pumping into the WS surge box. The deep sink hole above the surge box measures to be about 6'6" deep from the toe road surface and it appeared to be wet in the bottom indicating the cracks in the concrete may be letting water seep through and wash out the sediment behind the wall. The surge box was full of water so could not observe the sediment build up in the bottom of the box. (DWR Sutter Yard - afreitag)4/14/2016 Deep sink hole above surge box on WS, possibly caused by burrowing, possibly creating conduit for seepage into surge box, which may explain presence of water in box. Recommend pipe be video inspected. Recommend taking another photo in summer to observe possible sediment buildup in box. (DWR UCIP - kfazel)4/2/2015 Pipe has small leak during times of high water. Not sure of the cause. Pumps taken out from the pipe (may be for repairs). Only control board found. LS wing wall minor damage. (DWR Sutter Yard - afreitag)7/2/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/19/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/23/2013 Pump motors attached to pipes and running. Think pumps were disconnected during last inspection to keep motors above water for high water season. (DWR Sutter Yard - afreitag)12/11/2012 Pumps taken out from the pipe (may be for repairs). Only control board found. LS wing wall minor damage. (DWR UCIP - pamatya)

FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 20 feet below the crown. Concrete headwall on the landside (LS) with meter. Slide gate on the waterside (WS) end. Two slant pumps on the WS bank discharging into a concrete distribution box at the WS toe. Switch panel on the WS. (Permit No. 2971, 1959 - Sartain). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.55)].

FS Date: 8/30/2018 3:41:00 PM

Photo 1 of 3 : UCIP_FA_2018_53403_47323.jpg



Waterside view: overview

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	12.56	Rating **	U	Issue No.	173 (cont)	
LM End	12.56	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.294449 °	39.294449 °	
				-122.013871 °	-122.013871 °	
DWR ID	17367					

Comment Code

Inspector Comment

FS_ID:53403

DS_ID:17367

EP_NO: 2971

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 8/30/2018 Same as last inspection; large sink hole/erosion around surge box on WS so crossing remains Urgent (D. Sanoski - DWR UCIP).4/20/2017 Sink hole behind the WS surge box got a lot bigger after the high water event of Jan/Feb 2017. Pipe also had a leak during that time but not sure if it was due to the sink hole or a faulty slide gate. (DWR Sutter Yard- AFreitag)10/31/2016 No repairs have been made here yet. Sinkhole is still present at the WS surge box.(DWR Sutter Yard- AFreitag)6/6/2016 Pumps were connected to intake pipes and pumping into the WS surge box. The deep sink hole above the surge box measures to be about 6'6" deep from the toe road surface and it appeared to be wet in the bottom indicating the cracks in the concrete may be letting water seep through and wash out the sediment behind the wall. The surge box was full of water so could not observe the sediment build up in the bottom of the box. (DWR Sutter Yard - afreitag)4/14/2016 Deep sink hole above surge box on WS, possibly caused by burrowing, possibly creating conduit for seepage into surge box, which may explain presence of water in box. Recommend pipe be video inspected. Recommend taking another photo in summer to observe possible sediment buildup in box. (DWR UCIP - kfazel)4/2/2015 Pipe has small leak during times of high water. Not sure of the cause. Pumps taken out from the pipe (may be for repairs). Only control board found. LS wing wall minor damage. (DWR Sutter Yard - afreitag)7/2/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/19/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/23/2013 Pump motors attached to pipes and running. Think pumps were disconnected during last inspection to keep motors above water for high water season. (DWR Sutter Yard - afreitag)12/11/2012 Pumps taken out from the pipe (may be for repairs). Only control board found. LS wing wall minor damage. (DWR UCIP - pamatya)

FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 20 feet below the crown. Concrete headwall on the landside (LS) with meter. Slide gate on the waterside (WS) end. Two slant pumps on the WS bank discharging into a concrete distribution box at the WS toe. Switch panel on the WS. (Permit No. 2971, 1959 - Sartain). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.55)].

FS Date: 8/30/2018 3:41:00 PM

Photo 2 of 3 : UCIP_FA_2018_53403_47322.jpg



Waterside view: concrete surge box

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	12.56	Rating **	U	Issue No.	173 (cont)	
LM End	12.56	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.294449 °	39.294449 °	
				-122.013871 °	-122.013871 °	
DWR ID	17367					

Comment Code

Inspector Comment

FS_ID:53403

DS_ID:17367

EP_NO: 2971

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 8/30/2018 Same as last inspection; large sink hole/erosion around surge box on WS so crossing remains Urgent (D. Sanoski - DWR UCIP).4/20/2017 Sink hole behind the WS surge box got a lot bigger after the high water event of Jan/Feb 2017. Pipe also had a leak during that time but not sure if it was due to the sink hole or a faulty slide gate. (DWR Sutter Yard- AFreitag)10/31/2016 No repairs have been made here yet. Sinkhole is still present at the WS surge box.(DWR Sutter Yard- AFreitag)6/6/2016 Pumps were connected to intake pipes and pumping into the WS surge box. The deep sink hole above the surge box measures to be about 6'6" deep from the toe road surface and it appeared to be wet in the bottom indicating the cracks in the concrete may be letting water seep through and wash out the sediment behind the wall. The surge box was full of water so could not observe the sediment build up in the bottom of the box. (DWR Sutter Yard - afreitag)4/14/2016 Deep sink hole above surge box on WS, possibly caused by burrowing, possibly creating conduit for seepage into surge box, which may explain presence of water in box. Recommend pipe be video inspected. Recommend taking another photo in summer to observe possible sediment buildup in box. (DWR UCIP - kfazel)4/2/2015 Pipe has small leak during times of high water. Not sure of the cause. Pumps taken out from the pipe (may be for repairs). Only control board found. LS wing wall minor damage. (DWR Sutter Yard - afreitag)7/2/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/19/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/23/2013 Pump motors attached to pipes and running. Think pumps were disconnected during last inspection to keep motors above water for high water season. (DWR Sutter Yard - afreitag)12/11/2012 Pumps taken out from the pipe (may be for repairs). Only control board found. LS wing wall minor damage. (DWR UCIP - pamatya)

FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 20 feet below the crown. Concrete headwall on the landside (LS) with meter. Slide gate on the waterside (WS) end. Two slant pumps on the WS bank discharging into a concrete distribution box at the WS toe. Switch panel on the WS. (Permit No. 2971, 1959 - Sartain). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.55)].

FS Date: 8/30/2018 3:41:00 PM

Photo 3 of 3 : UCIP_FA_2018_53403_47321.jpg



Waterside view: slide gate in concrete surge box

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	12.70	Rating **	C	Issue No.	114
LM End	12.70	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.296433 °	39.296433 °
				-122.014347 °	-122.014347 °
DWR ID	DWR_ST0003_01_s_2018_114				
Comment Code					
PR : Prunings					
Inspector Comment					
The prunings were removed from the landside toe.					

No Photos

LM Start	12.74	Rating **	M	Issue No.	174
LM End	12.74	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.296965 °	39.296965 °
				-122.014266 °	-122.014266 °
DWR ID	17368				
Comment Code					
Inspector Comment					
FS_ID:51747 DS_ID:17368 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- A Freitag)10/31/2016 Appears abandoned. (DWR Sutter Yard- A Freitag)6/14/2016 Pipe was internally cleaned and camera inspected on 11/5/2015 by Nor-Cal Pipeline Services. Pipe length is 86.7ft long. The is a possible sag in the pipe between the WS riser and LS end as we could not get all the water to drain or be sucked out after the cleaning was done. Internal inspection showed signs of some rusting but no visible holes or other deterioration were found. After the inspection pipe ends were capped and reburied. 4/14/2016 Same as last inspection. Heavy vegetation along WS slope, especially below WS berm, limits visibility.4/2/2015 WS and LS pipe ends have been dug up in preparation for internal camera inspections. Only CMP riser found.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED* 12-inch drainage pipe of an unknown material through the levee, 14 feet below the crown, not found in 2016. Slide gate in a corrugated metal pipe riser (CMP) on the waterside (WS) slope, found in 2016. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.73)]. FS Date: 5/1/2017 10:19:49 AM					

Photo 1 of 3 : UCIP_FA_2018_51747_75075.jpg



View of landside from crown.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	12.74	Rating **	M	Issue No.	174 (cont)	
LM End	12.74	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.296965 °	39.296965 °	
				-122.014266 °	-122.014266 °	
DWR ID	17368					
Comment Code						
Inspector Comment						
FS_ID:51747 DS_ID:17368 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- A Freitag)10/31/2016 Appears abandoned. (DWR Sutter Yard- A Freitag)6/14/2016 Pipe was internally cleaned and camera inspected on 11/5/2015 by Nor-Cal Pipeline Services. Pipe length is 86.7ft long. The is a possible sag in the pipe between the WS riser and LS end as we could not get all the water to drain or be sucked out after the cleaning was done. Internal inspection showed signs of some rusting but no visible holes or other deterioration were found. After the inspection pipe ends were capped and reburied. 4/14/2016 Same as last inspection. Heavy vegetation along WS slope, especially below WS berm, limits visibility.4/2/2015 WS and LS pipe ends have been dug up in preparation for internal camera inspections. Only CMP riser found.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED* 12-inch drainage pipe of an unknown material through the levee, 14 feet below the crown, not found in 2016. Slide gate in a corrugated metal pipe riser (CMP) on the waterside (WS) slope, found in 2016. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.73)]. FS Date: 5/1/2017 10:19:49 AM						

LM Start	12.74	Rating **	M	Issue No.	174 (cont)
LM End	12.74	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2018_51747_75076.jpg



WS view: 12-inch slide gate inside CMP riser on WS slope.

Photo 3 of 3 : UCIP_FA_2018_51747_75077.jpg



WS: slide gate inside CMP riser.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	12.85	Rating **	M	Issue No.	76
LM End	12.85	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.298582°	39.298582°
				-122.014105°	-122.014105°
DWR ID	DWR_ST0003_01_f_2016_76				
Comment Code					
EQ : Equipment					
Inspector Comment					

Photo 1 of 1 : FA_2018_ST0003_264_76_20180905_00017.jpg



View of the ag equipment along the landside toe.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	12.96	Rating **	U	Issue No.	175
LM End	12.96	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.300140 °	39.300140 °
				-122.013599 °	-122.013599 °
DWR ID	17369				

Comment Code

Inspector Comment

FS_ID:53404
DS_ID:17369
EP_NO: 9510
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 8/30/2018 Same as last inspection; erosion at surge box so crossing remains Urgent (D. Sanoski - DWR UCIP).4/20/2017 Erosion hole at WS surge box has gotten worse after the Jan/Feb 2017 high water event. Pipe also leaked which is believed to be caused by the screwgate not fully closing. (DWR Sutter Yard-afreitag)10/31/2016 No repairs have been made here yet. Bad erosion still present at the WS toe distribution box.(DWR Sutter Yard-afreitag)6/3/2016 Bad erosion still present all around the WS surge box. Pipes were flowing water at the time of inspection and the bottom of the erosion hole was wet and had standing water in it indicating a leak coming from the surge box. (DWR Sutter Yard -afreitag)4/14/2016 Heavy scour still present around surge box on WS exposing pipe. Levee caved in and severely damaged around surge box. Erosion around CMP riser on WS cited previously not found. (DWR UCIP - kfazel)4/2/2015 Pipe leaks during high water. It is suspected that the screw gate does not fully close and may need to be cleaned to allow it to close fully. (DWR Sutter Yard - afreitag)7/2/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/19/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/23/2013 Water was flowing from the WS to LS ditch. Not sure where water flow was originating. All erosion problems are still present. (DWR Sutter Yard - afreitag)12/10/2016 Soil erosion around CMP riser and surge concrete box on WS damaged due to overflow. Pump not found. Flap gate missing on WS concrete box. WS slope eroded. Structure might have been used as drainage structure. This needs to be determined during routine inspection. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 18 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete box on the WS. Pump mounted on the WS bank, not found in 2016. (Automatic Board Order (ABO) issued as Permit No. 9510, 1974 - Forry). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.95)].
FS Date: 8/30/2018 3:42:00 PM

Photo 1 of 3 : UCIP_FA_2018_53404_47336.jpg



Waterside view: CMP riser on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	12.96	Rating **	U	Issue No.	175 (cont)	
LM End	12.96	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			39.300140°	39.300140°	
				-122.013599°	-122.013599°	
DWR ID	17369					
Comment Code						

Comment Code

Inspector Comment

FS_ID:53404

DS_ID:17369

EP_NO: 9510

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 8/30/2018 Same as last inspection; erosion at surge box so crossing remains Urgent (D. Sanoski - DWR UCIP). 4/20/2017 Erosion hole at WS surge box has gotten worse after the Jan/Feb 2017 high water event. Pipe also leaked which is believed to be caused by the screwgate not fully closing. (DWR Sutter Yard - afreitag)10/31/2016 No repairs have been made here yet. Bad erosion still present at the WS toe distribution box. (DWR Sutter Yard - afreitag)6/3/2016 Bad erosion still present all around the WS surge box. Pipes were flowing water at the time of inspection and the bottom of the erosion hole was wet and had standing water in it indicating a leak coming from the surge box. (DWR Sutter Yard - afreitag)4/14/2016 Heavy scour still present around surge box on WS exposing pipe. Levee caved in and severely damaged around surge box. Erosion around CMP riser on WS cited previously not found. (DWR UCIP - kfazel)4/2/2015 Pipe leaks during high water. It is suspected that the screw gate does not fully close and may need to be cleaned to allow it to close fully. (DWR Sutter Yard - afreitag)7/2/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/19/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/23/2013 Water was flowing from the WS to LS ditch. Not sure where water flow was originating. All erosion problems are still present. (DWR Sutter Yard - afreitag)12/10/2016 Soil erosion around CMP riser and surge concrete box on WS damaged due to overflow. Pump not found. Flap gate missing on WS concrete box. WS slope eroded. Structure might have been used as drainage structure. This needs to be determined during routine inspection. (DWR UCIP - pamatya)

FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 18 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete box on the WS. Pump mounted on the WS bank, not found in 2016. (Automatic Board Order (ABO) issued as Permit No. 9510, 1974 - Forry). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.95)].

FS Date: 8/30/2018 3:42:00 PM

Photo 2 of 3 : UCIP_FA_2018_53404_47334.jpg



Waterside view: overview of concrete surge box

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	12.96	Rating **	U	Issue No.	175 (cont)	
LM End	12.96	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.300140 °	39.300140 °	
				-122.013599 °	-122.013599 °	
DWR ID	17369					

Comment Code

Inspector Comment

FS_ID:53404
DS_ID:17369
EP_NO: 9510
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 8/30/2018 Same as last inspection; erosion at surge box so crossing remains Urgent (D. Sanoski - DWR UCIP).4/20/2017 Erosion hole at WS surge box has gotten worse after the Jan/Feb 2017 high water event. Pipe also leaked which is believed to be caused by the screwgate not fully closing. (DWR Sutter Yard-afreitag)10/31/2016 No repairs have been made here yet. Bad erosion still present at the WS toe distribution box.(DWR Sutter Yard-afreitag)6/3/2016 Bad erosion still present all around the WS surge box. Pipes were flowing water at the time of inspection and the bottom of the erosion hole was wet and had standing water in it indicating a leak coming from the surge box. (DWR Sutter Yard -afreitag)4/14/2016 Heavy scour still present around surge box on WS exposing pipe. Levee caved in and severely damaged around surge box. Erosion around CMP riser on WS cited previously not found. (DWR UCIP - kfazel)4/2/2015 Pipe leaks during high water. It is suspected that the screw gate does not fully close and may need to be cleaned to allow it to close fully. (DWR Sutter Yard - afreitag)7/2/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/19/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/23/2013 Water was flowing from the WS to LS ditch. Not sure where water flow was originating. All erosion problems are still present. (DWR Sutter Yard - afreitag)12/10/2016 Soil erosion around CMP riser and surge concrete box on WS damaged due to overflow. Pump not found. Flap gate missing on WS concrete box. WS slope eroded. Structure might have been used as drainage structure. This needs to be determined during routine inspection. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 18 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete box on the WS. Pump mounted on the WS bank, not found in 2016. (Automatic Board Order (ABO) issued as Permit No. 9510, 1974 - Forry). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.95)].
FS Date: 8/30/2018 3:42:00 PM

Photo 3 of 3 : UCIP_FA_2018_53404_47333.jpg



Waterside view: concrete surge box

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	13.38	Rating **	M	Issue No.	176
LM End	13.38	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.306065°	39.306065°	
			-122.013112°	-122.013112°	
DWR ID	17340				

Comment Code

Inspector Comment

FS_ID:51749
DS_ID:17340
EP_NO: 9511
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. A oak tree has fallen down onto the WS pipe end. It does not appear to have damaged the pipe but it will need to be better inspected after the tree has been cleared away. (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned. (DWR Sutter Yard- AFreitag)6/14/2016 Pipe was internally cleaned and camera inspected on 11/6/2015 by Nor-Cal Pipeline Services. The 48" cmp pipe section that runs through the levee was deemed to be in good condition. After the LS levee toe the pipe changes to a 48" concrete box culvert for under the roadway and that showed signs of some cracking. After the inspection the WS end was capped to keep sediment out until further abandonment can be achieved.4/16/2016 A wooden board has been placed on WS outlet of pipe to prevent sediment from entering pipe. This is a temporary repair measure by Sutter Yard until pipe can be grouted. Need to contact owner to ensure pipe's proper abandonment. Blockage of pipe outlet by wooden board or sediment will pose a hazard during high water. Pipe owner unclear, as landowner differs on LS and WS.4/2/2015 Pipe has been selected for internal camera inspection.Outlet pipe silted on WS. Inlet structure damaged on LS. Not properly abandoned.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 48-inch corrugated metal drainage pipe through the levee, 16.5 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Landside (LS) end of pipe on east side of River Road. Pipe is not in use but is operable. (48-inch pipe [HLM 13.37] authorized under Permit No. 9511, 1974 - Moresco). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 13.37)].
FS Date: 5/1/2017 10:27:34 AM

Photo 1 of 3 : UCIP_FA_2018_51749_47343.jpg



Waterside view: CMP riser with slide gate

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	13.38	Rating **	M	Issue No.	176 (cont)
LM End	13.38	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.306065°	39.306065°	
			-122.013112°	-122.013112°	
DWR ID	17340				

Comment Code

Inspector Comment

FS_ID:51749

DS_ID:17340

EP_NO: 9511

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. A oak tree has fallen down onto the WS pipe end. It does not appear to have damaged the pipe but it will need to be better inspected after the tree has been cleared away. (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned. (DWR Sutter Yard- AFreitag)6/14/2016 Pipe was internally cleaned and camera inspected on 11/6/2015 by Nor-Cal Pipeline Services. The 48" cmp pipe section that runs through the levee was deemed to be in good condition. After the LS levee toe the pipe changes to a 48" concrete box culvert for under the roadway and that showed signs of some cracking. After the inspection the WS end was capped to keep sediment out until further abandonment can be achieved.4/16/2016 A wooden board has been placed on WS outlet of pipe to prevent sediment from entering pipe. This is a temporary repair measure by Sutter Yard until pipe can be grouted. Need to contact owner to ensure pipe's proper abandonment. Blockage of pipe outlet by wooden board or sediment will pose a hazard during high water. Pipe owner unclear, as landowner differs on LS and WS.4/2/2015 Pipe has been selected for internal camera inspection.Outlet pipe silted on WS. Inlet structure damaged on LS. Not properly abandoned.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection.

FIELD_STRUCT_DESC: *ABANDONED* 48-inch corrugated metal drainage pipe through the levee, 16.5 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Landside (LS) end of pipe on east side of River Road. Pipe is not in use but is operable. (48-inch pipe [HLM 13.37] authorized under Permit No. 9511, 1974 - Moresco). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 13.37)].

FS Date: 5/1/2017 10:27:34 AM

Photo 2 of 3 : UCIP_FA_2018_51749_47342.jpg



Waterside view: overview of CMP riser and outlet pipe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	13.38	Rating **	M	Issue No.	176 (cont)
LM End	13.38	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.306065 °	39.306065 °
				-122.013112 °	-122.013112 °
DWR ID	17340				

Comment Code

Inspector Comment

FS_ID:51749
DS_ID:17340
EP_NO: 9511
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. A oak tree has fallen down onto the WS pipe end. It does not appear to have damaged the pipe but it will need to be better inspected after the tree has been cleared away. (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned. (DWR Sutter Yard- AFreitag)6/14/2016 Pipe was internally cleaned and camera inspected on 11/6/2015 by Nor-Cal Pipeline Services. The 48" cmp pipe section that runs through the levee was deemed to be in good condition. After the LS levee toe the pipe changes to a 48" concrete box culvert for under the roadway and that showed signs of some cracking. After the inspection the WS end was capped to keep sediment out until further abandonment can be achieved.4/16/2016 A wooden board has been placed on WS outlet of pipe to prevent sediment from entering pipe. This is a temporary repair measure by Sutter Yard until pipe can be grouted. Need to contact owner to ensure pipe's proper abandonment. Blockage of pipe outlet by wooden board or sediment will pose a hazard during high water. Pipe owner unclear, as landowner differs on LS and WS.4/2/2015 Pipe has been selected for internal camera inspection.Outlet pipe silted on WS. Inlet structure damaged on LS. Not properly abandoned.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 48-inch corrugated metal drainage pipe through the levee, 16.5 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Landside (LS) end of pipe on east side of River Road. Pipe is not in use but is operable. (48-inch pipe [HLM 13.37] authorized under Permit No. 9511, 1974 - Moresco). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 13.37)].
FS Date: 5/1/2017 10:27:34 AM

Photo 3 of 3 : UCIP_FA_2018_51749_47341.jpg



Waterside view: silted concrete lined CMP outlet pipe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	13.93	Rating **	M	Issue No.	177
LM End	13.93	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.314025 °	39.314025 °
				-122.012959 °	-122.012959 °
DWR ID	17361				

Comment Code

Inspector Comment

FS_ID:51750
DS_ID:17361
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Appears abandoned. WS pipe end buried. (DWR Sutter Yard- AFreitag)6/14/2016 WS pipe end was dug up for a internal camera inspection. The WS slide gate was sealed shut and would not open so the inspection was only done form the WS pipe end to the WS slide gate (33.1ft). The pipe showed some signs of heavy rusting but no visible holes or other signs of deterioration were found. After the inspection the WS pipe end was capped and reburied until further abandonment can be achieved.4/2/2015 Only CMP riser on WS. Pipe has been selected for internal camera inspection. Only CMP riser found on WS.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 16 feet below the crown, not found in 2015. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) end, found in 2015. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 13.92)].
FS Date: 5/1/2017 10:32:09 AM

LM Start	13.93	Rating **	M	Issue No.	177 (cont)
LM End	13.93	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_51750_47349.jpg



Waterside view: CMP riser with slide gate

Photo 2 of 3 : UCIP_FA_2018_51750_47348.jpg



Waterside view: inside CMP riser

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	13.93	Rating **	M	Issue No.	177 (cont)	
LM End	13.93	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.314025 °	39.314025 °	
				-122.012959 °	-122.012959 °	
DWR ID	17361					
Comment Code						
Inspector Comment						
FS_ID:51750 DS_ID:17361 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Appears abandoned. WS pipe end buried. (DWR Sutter Yard- AFreitag)6/14/2016 WS pipe end was dug up for a internal camera inspection. The WS slide gate was sealed shut and would not open so the inspection was only done form the WS pipe end to the WS slide gate (33.1ft). The pipe showed some signs of heavy rusting but no visible holes or other signs of deterioration were found. After the inspection the WS pipe end was capped and reburied until further abandonment can be achieved.4/2/2015 Only CMP riser on WS. Pipe has been selected for internal camera inspection. Only CMP riser found on WS.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 16 feet below the crown, not found in 2015. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) end, found in 2015. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 13.92)]. FS Date: 5/1/2017 10:32:09 AM						

Photo 3 of 3 : UCIP_FA_2018_51750_47347.jpg



Landside view: overview- across the county road

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	14.50	Rating **	A/W	Issue No.	178
LM End	14.50	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.321429 °	39.321429 °
				-122.016079 °	-122.016079 °
DWR ID	17330				
Comment Code					
Inspector Comment					
FS_ID:51752 DS_ID:17330 EP_NO: 9508 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 4/20/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- AFreitag)10/31/2016 Appears abandoned. WS pipe end buried. (DWR Sutter Yard- AFreitag)6/14/2016 Pipe was internally cleaned and camera inspected on 11/17/2015 by Nor-Cal Pipeline Services. Pipe section through levee is 86ft long and showed some signs of rusting but no visible holes or other deterioration was found. After the inspection the WS end was capped and reburied until further abandonment can be achieved.4/14/2016 Concrete box on LS cleared of sediment.4/2/2015 Same as last inspection. Concrete box on LS silted in. If abandoned it should be done so properly.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete distribution box on the landside (LS). (24-inch pipe [HLM 14.5] authorized under Automatic Board Order (ABO) issued as Permit No. 9508, 1974 - Jones). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 14.5)]. FS Date: 5/1/2017 10:34:48 AM					

LM Start	14.50	Rating **	A/W	Issue No.	178 (cont)
LM End	14.50	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_51752_47356.jpg



Waterside view: CMP riser with slide gate

Photo 2 of 3 : UCIP_FA_2018_51752_47361.jpg



Waterside view: levee mile marker

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	14.50	Rating **	A/W	Issue No.	178 (cont)	
LM End	14.50	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.321429 °	39.321429 °	
				-122.016079 °	-122.016079 °	
DWR ID	17330					
Comment Code						
Inspector Comment						
FS_ID:51752 DS_ID:17330 EP_NO: 9508 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 4/20/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- A Freitag)10/31/2016 Appears abandoned. WS pipe end buried. (DWR Sutter Yard- A Freitag)6/14/2016 Pipe was internally cleaned and camera inspected on 11/17/2015 by Nor-Cal Pipeline Services. Pipe section through levee is 86ft long and showed some signs of rusting but no visible holes or other deterioration was found. After the inspection the WS end was capped and reburied until further abandonment can be achieved.4/14/2016 Concrete box on LS cleared of sediment.4/2/2015 Same as last inspection. Concrete box on LS silted in. If abandoned it should be done so properly.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete distribution box on the landside (LS). (24-inch pipe [HLM 14.5] authorized under Automatic Board Order (ABO) issued as Permit No. 9508, 1974 - Jones). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 14.5)]. FS Date: 5/1/2017 10:34:48 AM						

Photo 3 of 3 : UCIP_FA_2018_51752_47360.jpg



Landside view: overview of distribution box

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	14.56	Rating **	M	Issue No.	179
LM End	14.56	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.322279 °	39.322279 °
				-122.015972 °	-122.015972 °
DWR ID	17331				
Comment Code					
Inspector Comment					
FS_ID:51753 DS_ID:17331 EP_NO: 1833 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/20/2017 No leaky pipe marker present during this inspection but it appears that nothing has changed or was repaired since it was labled leaky in 2015. (DWR Sutter Yard-AFreitag)10/31/2016 Leaky pipe marker was not present at inspection but nothing appears to have changed with this crossing. (DWR Sutter Yard- AFreitag)6/15/2016 No changes made to this crossing. Leaky pipe marker still present.4/14/2016 Levee slightly caved in one side of surge box on WS4/2/2015 Leaks during high water. Distribution box plugged with cement concrete on LS. Other concrete box plugged with concrete on WS. New steel pipe (about 16 inch diameter) sleeved through CMP pipe. It is visible inside CMP riser.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection. FIELD_STRUCT_DESC: 42-inch corrugated metal irrigation pipe through the levee, 14.2 feet below the crown. 16-inch (approximate) pipe has been sleeved through the 42-inch corrugated metal pipe (CMP), with annular space pressure grouted. Pump structure on the waterside (WS) bank, not found in 2016. Concrete surge box at the WS toe. Slide gate in a CMP riser on the WS slope. Concrete distribution box on the landside (LS) across River Road. Phone number provided is 916-802-8293. (Permit No. 1833, 1953 - Carter). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 14.55)]. FS Date: 5/1/2017 10:35:31 AM					

Photo 1 of 3 : UCIP_FA_2018_51753_47363.jpg



Waterside view: CMP riser with slide gate and surge box

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	14.56	Rating **	M	Issue No.	179 (cont)
LM End	14.56	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.322279°	39.322279°	
			-122.015972°	-122.015972°	

DWR ID	17331
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Comment Code

Inspector Comment

FS_ID:51753

DS_ID:17331

EP_NO: 1833

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 4/20/2017 No leaky pipe marker present during this inspection but it appears that nothing has changed or was repaired since it was labled leaky in 2015. (DWR Sutter Yard- AFreitag)10/31/2016 Leaky pipe marker was not present at inspection but nothing appears to have changed with this crossing. (DWR Sutter Yard- AFreitag)6/15/2016 No changes made to this crossing. Leaky pipe marker still present.4/14/2016 Levee slightly caved in one side of surge box on WS4/2/2015 Leaks during high water. Distribution box plugged with cement concrete on LS. Other concrete box plugged with concrete on WS. New steel pipe (about 16 inch diameter) sleeved through CMP pipe. It is visible inside CMP riser.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection.

FIELD_STRUCT_DESC: 42-inch corrugated metal irrigation pipe through the levee, 14.2 feet below the crown. 16-inch (approximate) pipe has been sleeved through the 42-inch corrugated metal pipe (CMP), with annular space pressure grouted. Pump structure on the waterside (WS) bank, not found in 2016. Concrete surge box at the WS toe. Slide gate in a CMP riser on the WS slope. Concrete distribution box on the landside (LS) across River Road. Phone number provided is 916-802-8293. (Permit No. 1833, 1953 - Carter). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 14.55)].

FS Date: 5/1/2017 10:35:31 AM

Photo 2 of 3 : UCIP_FA_2018_51753_47362.jpg



Waterside view: new steel pipe sleeved through CMP pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	14.56	Rating **	M	Issue No.	179 (cont)	
LM End	14.56	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.322279 °	39.322279 °	
				-122.015972 °	-122.015972 °	
DWR ID	17331					
Comment Code						
Inspector Comment						
FS_ID:51753 DS_ID:17331 EP_NO: 1833 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/20/2017 No leaky pipe marker present during this inspection but it appears that nothing has changed or was repaired since it was labled leaky in 2015. (DWR Sutter Yard- AFreitag)10/31/2016 Leaky pipe marker was not present at inspection but nothing appears to have changed with this crossing. (DWR Sutter Yard- AFreitag)6/15/2016 No changes made to this crossing. Leaky pipe marker still present.4/14/2016 Levee slightly caved in one side of surge box on WS4/2/2015 Leaks during high water. Distribution box plugged with cement concrete on LS. Other concrete box plugged with concrete on WS. New steel pipe (about 16 inch diameter) sleeved through CMP pipe. It is visible inside CMP riser.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection. FIELD_STRUCT_DESC: 42-inch corrugated metal irrigation pipe through the levee, 14.2 feet below the crown. 16-inch (approximate) pipe has been sleeved through the 42-inch corrugated metal pipe (CMP), with annular space pressure grouted. Pump structure on the waterside (WS) bank, not found in 2016. Concrete surge box at the WS toe. Slide gate in a CMP riser on the WS slope. Concrete distribution box on the landside (LS) across River Road. Phone number provided is 916-802-8293. (Permit No. 1833, 1953 - Carter). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 14.55)]. FS Date: 5/1/2017 10:35:31 AM						

Photo 3 of 3 : UCIP_FA_2018_51753_47366.jpg



Waterside view: plugged concrete surge box

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	15.17	Rating **	M	Issue No.	71
LM End	15.48	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.330578 °	39.333842 °
				-122.018485 °	-122.022225 °
DWR ID	DWR_ST0003_01_f_2016_71				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA_2018_ST0003_264_71_20180905_00015.jpg



View of a ditch along the landside toe.

LM Start	15.48	Rating **	M	Issue No.	180
LM End	15.48	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.333868 °	39.333868 °
				-122.022243 °	-122.022243 °
DWR ID	17333				
Comment Code					
Inspector Comment					
FS_ID:51755 DS_ID:17333 EP_NO: 9506 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/20/2017 Both pipe ends were underwater during site visit but it appears to be in good condition. (DWR Sutter Yard-AFreitag)10/31/2016 Minor erosion caused by rain runoff starting at the top of the WS headwall. REst of crossing appears in good condition. (DWR Sutter Yard- AFreitag)6/15/2016 Both pipe ends were underwater but appear to be in good condition.4/2/2015 Pipe and ditches were full of water. Everything seemed to be in good shape.Water full on inlet and outlet of the structure.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch irrigation pipe of an unknown material through the levee, 16.5 feet below the crown. Pump in the floodway. Irrigation transfer ditch on the waterside (WS) to concrete surge box at the WS toe. Slide gates in a corrugated metal pipe (CMP) riser on the WS slope. Discharges into a concrete distribution box at the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9506, 1974 - Carter). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 15.46)]. FS Date: 5/1/2017 10:38:21 AM					

Photo 1 of 3 : UCIP_FA_2018_51755_47371.jpg



Crown view: overview (both sides of the levee)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	15.48	Rating **	M	Issue No.	180 (cont)	
LM End	15.48	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.333868 °	39.333868 °	
				-122.022243 °	-122.022243 °	
DWR ID	17333					
Comment Code						
Inspector Comment						
FS_ID:51755 DS_ID:17333 EP_NO: 9506 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/20/2017 Both pipe ends were underwater during site visit but it appears to be in good condition. (DWR Sutter Yard-AFreitag)10/31/2016 Minor erosion caused by rain runoff starting at the top of the WS headwall. RESt of crossing appears in good condition. (DWR Sutter Yard- AFreitag)6/15/2016 Both pipe ends were underwater but appear to be in good condition.4/2/2015 Pipe and ditches were full of water. Everything seemed to be in good shape.Water full on inlet and outlet of the structure.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch irrigation pipe of an unknown material through the levee, 16.5 feet below the crown. Pump in the floodway. Irrigation transfer ditch on the waterside (WS) to concrete surge box at the WS toe. Slide gates in a corrugated metal pipe (CMP) riser on the WS slope. Discharges into a concrete distribution box at the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9506, 1974 - Carter). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 15.46)]. FS Date: 5/1/2017 10:38:21 AM						

LM Start	15.48	Rating **	M	Issue No.	180 (cont)
LM End	15.48	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2018_51755_47370.jpg



Waterside view: CMP riser, inlet box and water transfer ditch

Photo 3 of 3 : UCIP_FA_2018_51755_47369.jpg



Waterside view: inside CMP riser

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	15.81	Rating **	M	Issue No.	181
LM End	15.81	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.338029 °	39.338029 °
				-122.022711 °	-122.022711 °
DWR ID	17334				
Comment Code					
Inspector Comment					
FS_ID:51756 DS_ID:17334 EP_NO: 2599 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 4/20/2017 Unable to locate. (DWR Sutter Yard-AFreitag)10/31/2016 Unable to locate. (DWR Sutter Yard-AFreitag)6/15/2016 Unable to locate.4/2/2015 Unable to locate. Need to contact owner to determine status and location of this crossing. 7/2/2014 Unable to locate.12/19/2013 Unable to locate.7/23/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: 2.375-inch unwrapped steel high pressure gas pipeline through the levee, 2.6 feet below the crown. (Permit No. 2599, 1957 - Honolulu Oil Corporation). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 5/1/2017 10:39:25 AM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	16.12	Rating **	M	Issue No.	182	
LM End	16.12	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.341653 °	39.341653 °	
				-122.023908 °	-122.023908 °	
DWR ID	17335					
Comment Code						
Inspector Comment						
FS_ID:51757 DS_ID:17335 EP_NO: 2651 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 4/20/2017 Unable to locate. (DWR Sutter Yard-AFreitag)10/31/2016 Unable to locate. (DWR Sutter Yard-AFreitag)6/15/2016 Unable to locate.4/2/2015 Unable to locate. Need to contact owner to determine status and location of this crossing. 7/2/2014 Unable to locate.12/19/2013 Unable to locate7/23/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: 2.375-inch unwrapped steel high pressure gas pipeline through the levee, 2.6 feet below the crown. (Permit No. 2651, 1957 - Occidental Petroleum Corporation). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 5/1/2017 10:39:59 AM						

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	16.21	Rating **	M	Issue No.	183
LM End	16.21	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.342905°	39.342905°
				-122.024215°	-122.024215°
DWR ID	17336				
Comment Code					
Inspector Comment					
FS_ID:51758 DS_ID:17336 EP_NO: 2651 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 4/20/2017 Unable to locate. (DWR Sutter Yard-AFreitag)10/31/2016 Unable to locate. (DWR Sutter Yard-AFreitag)6/15/2016 Unable to locate.4/2/2015 Unable to locate. Need to contact owner to determine status and location of crossing.7/2/2014 Unable to locate.12/19/2013 Unable to locate7/23/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: 2.375-inch unwrapped steel high pressure gas pipeline through the levee, 2.5 feet below the crown. (Permit No. 2651, 1957 - Occidental Petroleum Corporation). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 5/1/2017 10:40:37 AM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	16.30	Rating **	M	Issue No.	184
LM End	16.30	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.344177°	39.344177°	
			-122.024300°	-122.024300°	
DWR ID	17337				

Comment Code

Inspector Comment

FS_ID:51759
DS_ID:17337
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- A Freitag)11/1/2016 Abandoned. Pipe is buried and not visible but a white marker on WS shoulder shows its location. (DWR Sutter Yard- A Freitag)6/15/2016 Pipe was dug up and internally cleaned and camera inspected on 11/19/2015 by Nor-Cal Pipeline Services. Pipe section through the levee is 88ft long and showed signs of rusting but no holes or other deterioration was found. The WS flap gate was broken during excavation but doesn't pose an issue as the pipe was capped and reburied until further abandonment can be achieved. Unfortunately the pipe was not photographed when exposed.4/14/2016 Same as last inspection.4/2/2015 Unable to locate. Pipe has been selected to be dug up and internally camera inspected.7/2/2014 Unable to locate.12/19/2013 Unable to locate.7/23/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: 42-inch corrugated metal drainage pipe through the levee, 16.5 feet below the crown. Metal flap gate on the waterside (WS) silted over. Brick "U" shaped headwall on the WS toe.
[Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 16.29)].
FS Date: 5/1/2017 10:41:07 AM

LM Start	16.30	Rating **	M	Issue No.	184 (cont)
LM End	16.30	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_51759_75096.jpg



View from crown down WS slope at location of crossing.

Photo 2 of 3 : UCIP_FA_2018_51759_75097.jpg



View of LS from crown at location of crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	16.30	Rating **	M	Issue No.	184 (cont)
LM End	16.30	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.344177 °	39.344177 °
				-122.024300 °	-122.024300 °
DWR ID	17337				

Comment Code

Inspector Comment

FS_ID:51759
DS_ID:17337
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- A Freitag)11/1/2016 Abandoned. Pipe is buried and not visible but a white marker on WS shoulder shows its location. (DWR Sutter Yard- A Freitag)6/15/2016 Pipe was dug up and internally cleaned and camera inspected on 11/19/2015 by Nor-Cal Pipeline Services. Pipe section through the levee is 88ft long and showed signs of rusting but no holes or other deterioration was found. The WS flap gate was broken during excavation but doesn't pose an issue as the pipe was capped and reburied until further abandonment can be achieved. Unfortunately the pipe was not photographed when exposed.4/14/2016 Same as last inspection.4/2/2015 Unable to locate. Pipe has been selected to be dug up and internally camera inspected.7/2/2014 Unable to locate.12/19/2013 Unable to locate.7/23/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: 42-inch corrugated metal drainage pipe through the levee, 16.5 feet below the crown. Metal flap gate on the waterside (WS) silted over. Brick "U" shaped headwall on the WS toe.
[Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 16.29)].
FS Date: 5/1/2017 10:41:07 AM

Photo 3 of 3 : UCIP_FA_2018_51759_75098.jpg



Looking up WS slope: bare spot where pipe was previously excavated, video inspected, and backfilled.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	16.43	Rating **	M	Issue No.	185	
LM End	16.43	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.345635 °	39.345635 °	
				-122.022915 °	-122.022915 °	
DWR ID	17349					
Comment Code						
Inspector Comment						
FS_ID:51760 DS_ID:17349 EP_NO: 9500 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- A Freitag)11/1/2016 Abandoned. (DWR Sutter Yard- A Freitag)6/15/2016 Abandoned- WS slide gate and LS distribution box are silted over.4/16/2016 Same as last inspection. Appears abandoned and should be done so properly.4/2/2015 WS slide gate and LS distribution box are still silted over. Seems abandoned as slide gate and distribution box silted.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED* 48-inch corrugated metal irrigation and drainage pipe through the levee, 17 feet below the crown, not found in 2016. Slide gate on the waterside (WS), found in 2016. 8- inch steel pipe sleeved through the 48-inch pipe during the summer months, not found in 2016. Discharges into a concrete distribution box on the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9500, 1974 - Zumwalt Orchards, Inc.). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 16.42)]. FS Date: 5/1/2017 10:42:09 AM						

LM Start	16.43	Rating **	M	Issue No.	185 (cont)
LM End	16.43	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_51760_47380.jpg



Waterside view: overview of slide gate

Photo 2 of 3 : UCIP_FA_2018_51760_47379.jpg



Waterside view: slide gate on steel structure

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	16.43	Rating **	M	Issue No.	185 (cont)	
LM End	16.43	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.345635 °	39.345635 °	
				-122.022915 °	-122.022915 °	
DWR ID	17349					
Comment Code						
Inspector Comment						
FS_ID:51760						
DS_ID:17349						
EP_NO: 9500						
Repair Type: Non-Urgent						
Crossing Status: Indicator Found						
UCIP Comments: 4/20/2017 Abandoned- needs to be done properly.						
(DWR Sutter Yard- AFreitag)11/1/2016 Abandoned. (DWR Sutter						
Yard- AFreitag)6/15/2016 Abandoned- WS slide gate and LS						
distribution box are silted over.4/16/2016 Same as last inspection.						
Appears abandoned and should be done so properly.4/2/2015 WS						
slide gate and LS distribution box are still silted over.Seems						
abandoned as slide gate and distribution box silted.7/2/2014 Same						
as last inspection.12/19/2013 Same as last inspection.7/23/2013						
Same as last inspection.						
FIELD_STRUCT_DESC: *ABANDONED* 48-inch corrugated metal						
irrigation and drainage pipe through the levee, 17 feet below the crown,						
not found in 2016. Slide gate on the waterside (WS), found in 2016. 8-						
inch steel pipe sleeved through the 48-inch pipe during the summer						
months, not found in 2016. Discharges into a concrete distribution box						
on the landside (LS) toe. (Automatic Board Order (ABO) issued as						
Permit No. 9500, 1974 - Zumwalt Orchards, Inc.). [Additional						
Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M						
Manual 136, March 1960 (HLM 16.42)].						
FS Date: 5/1/2017 10:42:09 AM						

Photo 3 of 3 : UCIP_FA_2018_51760_47378.jpg



Waterside view: silt and debris in front of slide gate

LM Start	16.43	Rating **	C	Issue No.	70
LM End	16.43	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.345695 °	39.345695 °
				-122.022820 °	-122.022820 °
DWR ID	DWR_ST0003_01_f_2016_70				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
The rodent holes were repaired along the landside slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Fall 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

No Photos

Photo 1 of 1 : FA_2018_ST0003_264_68_20180905_00014.jpg

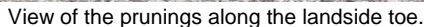
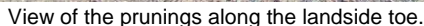


Photo 1 of 1 : FA_2018_ST0003_264_66_20180905_00013.jpg

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	17.51	Rating **	M	Issue No.	65
LM End	17.51	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.352615 °	39.352615 °
				-122.009247 °	-122.009247 °
DWR ID	DWR_ST0003_01_f_2016_65				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove prunings from the landside toe.					

Photo 1 of 1 : FA_2018_ST0003_264_65_20180905_00012.jpg



View of the prunings along the landside toe.

LM Start	17.58	Rating **	M	Issue No.	186
LM End	17.58	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.353531 °	39.353531 °
				-122.009138 °	-122.009138 °
DWR ID	17329				
Comment Code					
Inspector Comment					
FS_ID:51762 DS_ID:17329 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. Pipe had a small leak during high water and is believed to be caused by the screw gate not being fully closed before it was reburied after its internal inspection. (DWR Sutter Yard- AFreitag)11/1/2016 Abandoned. (DWR Sutter Yard- AFreitag)6/15/2016 Pipe was dug up and internally cleaned and camera inspected on 11/18/2015 by Nor-Cal Pipeline Services. Pipe section through levee is about 93.8ft long. Inspection showed signs of rusting but no holes or other deterioration was found. WS end and slidegate were photographed, LS end was not. After the inspection pipe ends were capped and reburied until further abandonment can be achieved.4/2/2015 WS pipe end was dug up in preparation for internal camera inspection. Only steel slide gate structure found on waterside.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 15.8 feet below the crown. Slide gate on the waterside (WS) end. Both pipe ends are silted over. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 17.6)]. FS Date: 5/1/2017 10:45:36 AM					

Photo 1 of 3 : UCIP_FA_2018_51762_47384.jpg



Landside view: overview. No pipe found.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	17.58	Rating **	M	Issue No.	186 (cont)	
LM End	17.58	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.353531 °	39.353531 °	
				-122.009138 °	-122.009138 °	
DWR ID	17329					
Comment Code						
Inspector Comment						
FS_ID:51762 DS_ID:17329 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. Pipe had a small leak during high water and is believed to be caused by the screw gate not being fully closed before it was reburied after its internal inspection. (DWR Sutter Yard- AFreitag)11/1/2016 Abandoned. (DWR Sutter Yard- AFreitag)6/15/2016 Pipe was dug up and internally cleaned and camera inspected on 11/18/2015 by Nor-Cal Pipeline Services. Pipe section through levee is about 93.8ft long. Inspection showed signs of rusting but no holes or other deterioration was found. WS end and slidegate were photographed, LS end was not. After the inspection pipe ends were capped and reburied until further abandonment can be achieved.4/2/2015 WS pipe end was dug up in preparation for internal camera inspection. Only steel slide gate structure found on waterside.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 15.8 feet below the crown. Slide gate on the waterside (WS) end. Both pipe ends are silted over. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 17.6)]. FS Date: 5/1/2017 10:45:36 AM						

LM Start	17.58	Rating **	M	Issue No.	186 (cont)
LM End	17.58	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2018_51762_47386.jpg



Waterside view: slide gate steel structure

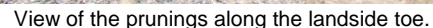
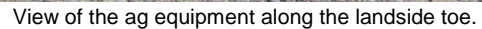
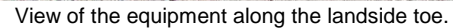
Photo 3 of 3 : UCIP_FA_2018_51762_47385.jpg



Waterside view: buried slide gate

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sutter Maintenance Yard East Levee Sacramento River



**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	18.07	Rating **	M	Issue No.	187	
LM End	18.07	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.359675 °	39.359675 °	
				-122.005879 °	-122.005879 °	
DWR ID	17342					
Comment Code						
Inspector Comment						
FS_ID:51764						
DS_ID:17342						
EP_NO: 14217						
Repair Type: Non-Urgent						
Crossing Status: Not Found						
UCIP Comments: 4/20/2017 Unable to locate. (DWR Sutter Yard-AFreitag)11/1/2016 Unable to locate. (DWR Sutter Yard-AFreitag)6/3/2016 Unable to locate.4/2/2015 Unable to locate.Need to contact owner to determine status and location of this crossing. 7/2/2014 Unable to locate.12/19/2013 Unable to locate.7/24/2013 Same as last inspection. Unable to locate.						
FIELD_STRUCT_DESC: 1 of 2: 2-inch asphalt coated steel gas pipeline through the levee, 2 feet below the crown. (Permit No. 14217, 1985 - Jordan Oil and Gas Company). [Additional Reference(s): DWR Levee Log, 2002].						
FS Date: 5/1/2017 10:47:34 AM						

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	18.07	Rating **	M	Issue No.	188
LM End	18.07	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.359675°	39.359675°
				-122.005879°	-122.005879°
DWR ID	17520				
Comment Code					
Inspector Comment					
FS_ID:51765 DS_ID:17520 EP_NO: 14217 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 4/20/2017 Unable to locate. (DWR Sutter Yard-AFreitag)11/1/2016 Unable to locate. (DWR Sutter Yard-AFreitag)6/3/2016 Unable to locate.4/2/2015 Unable to locate. Need to contact owner to determine status and location of this crossing.7/2/2014 Unable to locate.12/19/2013 Unable to locate.7/24/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: 2 of 2: 2-inch asphalt coated steel gas pipeline through the levee, 2 feet below the crown. (Permit No. 14217, 1985, - Jordan Oil and Gas Company). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 5/1/2017 10:48:10 AM					

No Photos

LM Start	18.12	Rating **	M	Issue No.	62
LM End	18.12	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.359957°	39.359957°
				-122.005063°	-122.005063°
DWR ID	DWR_ST0003_01_f_2016_62				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Fruit trees at the landside toe.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	18.19	Rating **	M	Issue No.	189
LM End	18.19	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.359983 °	39.359983 °	
			-122.003732 °	-122.003732 °	

DWR ID	17343
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Comment Code	
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Inspector Comment	
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FS_ID:51766
DS_ID:17343
EP_NO: 9502
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 Abandoned- needs to be done properly.
(DWR Sutter Yard- AFreitag)11/1/2016 Abandoned. (DWR Sutter Yard- AFreitag)6/3/2016 Abandoned crossing.4/2/2015 Same as last inspection. Vertical pump on bank not found as bank is not accessible. An abandoned electrical switch found on waterside. Landside distribution box is filled with debris and soil. Crossing appears abandoned and should be verified as having been done so properly.

7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal irrigation pipe through the levee, 18 feet below the crown. Vertical pump on the waterside (WS) bank, not found in 2015. Slide gate in a concrete box on the WS toe. Pipe discharges into a concrete distribution box on the landside (LS) toe. Pole on the WS shoulder and an abandoned electrical switch found on the WS. (Automatic Board Order (ABO) issued as Permit No. 9502, 1974 - Coffman). (Additional Related Permit(s): Permit No. 11540, 1976 - Wilearlee Walnuts). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 18.22)].
FS Date: 5/1/2017 10:49:09 AM

LM Start	18.19	Rating **	M	Issue No.	189 (cont)
LM End	18.19	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_51766_47394.jpg



Waterside view: overview of gate riser

Photo 2 of 3 : UCIP_FA_2018_51766_47392.jpg



Waterside view: inside gate riser

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	18.19	Rating **	M	Issue No.	189 (cont)	
LM End	18.19	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.359983 °	39.359983 °	
				-122.003732 °	-122.003732 °	
DWR ID	17343					
Comment Code						
Inspector Comment						
FS_ID:51766 DS_ID:17343 EP_NO: 9502 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)11/1/2016 Abandoned. (DWR Sutter Yard- AFreitag)6/3/2016 Abandoned crossing.4/2/2015 Same as last inspection. Vertical pump on bank not found as bank is not accessible. An abandoned electrical switch found on waterside. Landside distribution box is filled with debris and soil. Crossing appears abandoned and should be verified as having been done so properly. 7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal irrigation pipe through the levee, 18 feet below the crown. Vertical pump on the waterside (WS) bank, not found in 2015. Slide gate in a concrete box on the WS toe. Pipe discharges into a concrete distribution box on the landside (LS) toe. Pole on the WS shoulder and an abandoned electrical switch found on the WS. (Automatic Board Order (ABO) issued as Permit No. 9502, 1974 - Coffman). (Additional Related Permit(s): Permit No. 11540, 1976 - Wilearlee Walnuts). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 18.22)]. FS Date: 5/1/2017 10:49:09 AM						

Photo 3 of 3 : UCIP_FA_2018_51766_47391.jpg



Waterside view: concrete gate riser

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	18.20	Rating **	M	Issue No.	190
LM End	18.20	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.359948 °	39.359948 °
				-122.003591 °	-122.003591 °
DWR ID	17344				
Comment Code					
Inspector Comment					
FS_ID:51767 DS_ID:17344 EP_NO: 12930A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 4/20/2017 Unable to locate. (DWR Sutter Yard-AFreitag)11/1/2016 Unable to locate. (DWR Sutter Yard-AFreitag)6/3/2016 Unable to locate.4/2/2015 Unable to locate. Need to contact owner to determine status and location of this crossing.7/2/2014 Unable to locate.12/19/2013 Unable to locate.7/24/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: 3.5-inch asphalt coated steel gas pipeline through the levee, 2 feet below the crown. (Permit No. 12930-A, 1980 - Jordan Oil and Gas Co.). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 5/1/2017 10:50:09 AM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	18.61	Rating **	A/W	Issue No.	191
LM End	18.61	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.362866 °	39.362866 °
				-121.997993 °	-121.997993 °
DWR ID	17345				

Comment Code

Inspector Comment

FS_ID:51770
DS_ID:17345
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 4/20/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)11/1/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)6/16/2016 Pipe was internally cleaned and camera inspected on 11/19/2015 by Nor-Cal Pipeline Services. Pipe is 155ft in total length and the inspection showed some minor rusting but no holes or other deformations were found. Pipe is still used by the landowner for irrigation and the sloughing near the WS end was repaired and rocked to prevent future sloughing or erosion.4/14/2016 Sloughing repaired by Sutter Yard with rock revetment.4/2/2015 Same as last inspection. Pipe has been selected for internal camera inspection. Sloughing at outlet and levee slope is damaged due to sloughing.7/2/2014 It is not an abandoned crossing. Sloughing at outlet and levee slope is damaged due to sloughing.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 20 feet below the crown. Slide gate at the waterside (WS) toe. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 18.65)].
FS Date: 5/1/2017 10:52:46 AM

LM Start	18.61	Rating **	A/W	Issue No.	191 (cont)
LM End	18.61	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_51770_47399.jpg



Waterside view: overview of sliding gate structure

Photo 2 of 3 : UCIP_FA_2018_51770_47398.jpg



Waterside view: outlet pipe with concrete headwall and floor apron.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	18.61	Rating **	A/W	Issue No.	191 (cont)	
LM End	18.61	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.362866 °	39.362866 °	
				-121.997993 °	-121.997993 °	
DWR ID	17345					
Comment Code						
Inspector Comment						
FS_ID:51770						
DS_ID:17345						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 4/20/2017 Crossing appears to be in good condition.						
(DWR Sutter Yard- A Freitag)11/1/2016 Crossing appears to be in						
good condition. (DWR Sutter Yard- A Freitag)6/16/2016 Pipe was						
internally cleaned and camera inspected on 11/19/2015 by Nor-Cal						
Pipeline Services. Pipe is 155ft in total length and the inspection						
showed some minor rusting but no holes or other deformations were						
found. Pipe is still used by the landowner for irrigation and the						
sloughing near the WS end was repaired and rocked to prevent future						
sloughing or erosion.4/14/2016 Sloughing repaired by Sutter Yard						
with rock revetment.4/2/2015 Same as last inspection. Pipe has been						
selected for internal camera inspection.Sloughing at outlet and levee						
slope is damaged due to sloughing.7/2/2014 It is not an abandoned						
crossing. Sloughing at outlet and levee slope is damaged due to						
sloughing.12/19/2013 Same as last inspection.7/24/2013 Same as						
last inspection.						
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe						
through the levee, 20 feet below the crown. Slide gate at the waterside						
(WS) toe. [Additional Reference(s): DWR Levee Log, 2002. USACE						
Sacramento O&M Manual 136, March 1960 (HLM 18.65)].						
FS Date: 5/1/2017 10:52:46 AM						

Photo 3 of 3 : UCIP_FA_2018_51770_47403.jpg



Waterside view: sloughing at outlet pipe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	18.70	Rating **	A/W	Issue No.	192
LM End	18.70	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.364067 °	39.364067 °
				-121.997792 °	-121.997792 °
DWR ID	17346				
Comment Code					
Inspector Comment					
FS_ID:51771 DS_ID:17346 EP_NO: 9503 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 4/20/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)11/1/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)6/16/2016 Pipe was internally cleaned and camera inspected on 11/19/2015 by Nor-Cal Pipeline Services. 129.5 ft (starting from the WS end) was inspected to get get us through the levee prism but the LS end was never found. Pipe showed no signs of rust or damage.4/14/2016 Inlet structure still filled with soil.4/2/2015 Same as last inspection. Pipe has been selected for internal camera inspection.According to local people, the crossing is functional. The gap between 8-inch and 24-inch pipes is grouted with cement. Inlet structure is filled with soil.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 19 feet below the crown. 8-inch steel pipe sleeved through the 24-inch pipe. Annular space cement grouted. Slide gate at the waterside (WS) toe. Concrete inlet box on the landside (LS). (24-inch pipe [HLM 18.74] authorized under Automatic Board Order (ABO) issued as Permit No. 9503, 1974 - Baird). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 18.74)]. FS Date: 5/1/2017 10:53:44 AM					

LM Start	18.70	Rating **	A/W	Issue No.	192 (cont)
LM End	18.70	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_51771_47442.jpg



Waterside view: overview of slide gate structure

Photo 2 of 3 : UCIP_FA_2018_51771_47441.jpg



Waterside view: 8-inch pipe inside 24-inch CMP

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	18.70	Rating **	A/W	Issue No.	192 (cont)
LM End	18.70	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.364067 °	39.364067 °
				-121.997792 °	-121.997792 °
DWR ID	17346				

Comment Code

Inspector Comment

FS_ID:51771
DS_ID:17346
EP_NO: 9503
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 4/20/2017 Crossing appears to be in good condition.
(DWR Sutter Yard- A Freitag)11/1/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)6/16/2016 Pipe was internally cleaned and camera inspected on 11/19/2015 by Nor-Cal Pipeline Services. 129.5 ft (starting from the WS end) was inspected to get us through the levee prism but the LS end was never found. Pipe showed no signs of rust or damage.4/14/2016 Inlet structure still filled with soil.4/2/2015 Same as last inspection. Pipe has been selected for internal camera inspection.According to local people, the crossing is functional. The gap between 8-inch and 24-inch pipes is grouted with cement. Inlet structure is filled with soil.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 19 feet below the crown. 8-inch steel pipe sleeved through the 24-inch pipe. Annular space cement grouted. Slide gate at the waterside (WS) toe. Concrete inlet box on the landside (LS). (24-inch pipe [HLM 18.74] authorized under Automatic Board Order (ABO) issued as Permit No. 9503, 1974 - Baird). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 18.74)].
FS Date: 5/1/2017 10:53:44 AM

Photo 3 of 3 : UCIP_FA_2018_51771_47440.jpg



Waterside view: 8-inch pipe and drain gate

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	19.19	Rating **	A/W	Issue No.	193
LM End	19.19	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.370031 °	39.370031 °
				-121.996458 °	-121.996458 °
DWR ID	17347				
Comment Code					
Inspector Comment					
FS_ID:51773 DS_ID:17347 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 4/20/2017 Abandoned- plugged. (DWR Sutter Yard-AFreitag)11/1/2016 Abandoned/plugged. (DWR Sutter Yard-AFreitag)6/16/2016 Internal camera inspection was done on 11/19/2015 by Nor-Cal Pipeline Servies. Pipe was inspected starting from the WS end and inspected upto the grout plug that is 13.7ft into the pipe. Pipe was then capped and reburied until further abandonment can be achieved.4/2/2015 WS end of pipe was dug up in preparation for internal camera inspection. Only steel slide gate structure found on WS.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection. FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, 21.7 feet below the crown. Slide gate at the waterside (WS) toe. Pipe grouted on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 19.24)]. FS Date: 5/1/2017 10:55:06 AM					

LM Start	19.19	Rating **	A/W	Issue No.	193 (cont)
LM End	19.19	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_51773_47447.jpg



Waterside view: overview of abandoned slide gate structure

Photo 2 of 3 : UCIP_FA_2018_51773_47446.jpg



Landside view: overview (no pipes)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	19.19	Rating **	A/W	Issue No.	193 (cont)	
LM End	19.19	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.370031 °	39.370031 °	
				-121.996458 °	-121.996458 °	
DWR ID	17347					
Comment Code						
Inspector Comment						
FS_ID:51773						
DS_ID:17347						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 4/20/2017 Abandoned- plugged. (DWR Sutter Yard-AFreitag)11/1/2016 Abandoned/plugged. (DWR Sutter Yard-AFreitag)6/16/2016 Internal camera inspection was done on 11/19/2015 by Nor-Cal Pipeline Servies. Pipe was inspected starting from the WS end and inspected upto the grout plug that is 13.7ft into the pipe. Pipe was then capped and reburied until further abandonment can be achieved.4/2/2015 WS end of pipe was dug up in preparation for internal camera inspection. Only steel slide gate structure found on WS.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.						
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, 21.7 feet below the crown. Slide gate at the waterside (WS) toe. Pipe grouted on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 19.24)].						
FS Date: 5/1/2017 10:55:06 AM						

Photo 3 of 3 : UCIP_FA_2018_51773_73781.jpg



WS pipe end and screw gate

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	19.55	Rating **	M	Issue No.	194
LM End	19.55	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.375221 °	39.375221 °
				-121.995878 °	-121.995878 °
DWR ID	17487				
Comment Code					
Inspector Comment					
FS_ID:51775					
DS_ID:17487					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 4/20/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- A Freitag)11/1/2016 Abandoned.(DWR Sutter Yard- A Freitag)6/3/2016 Abandoned crossing.4/2/2015 Same as last inspection. Slide Gate WS not found. An abandoned pump and steel pipe found on WS. A 6 ft x 8 ft concrete distribution box with a CMP found on LS. Box filled with soil. An abandoned crossing.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.					
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, invert 21.7 feet below the crown.					
Abandoned pump and steel pipe found on the waterside (WS). 6 foot by 8 foot concrete distribution box with the 36-inch corrugated metal pipe found on the landside (LS). [Additional Reference(s): USACE Sacramento O&M Manual 136, March 1960 (HLM 19.61)].					
FS Date: 5/1/2017 10:56:50 AM					

LM Start	19.55	Rating **	M	Issue No.	194 (cont)
LM End	19.55	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_51775_47449.jpg



Waterside view: overview

Photo 2 of 3 : UCIP_FA_2018_51775_47448.jpg



Waterside view: abandoned and ruined pipe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	19.55	Rating **	M	Issue No.	194 (cont)	
LM End	19.55	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.375221°	39.375221°	
				-121.995878°	-121.995878°	
DWR ID	17487					
Comment Code						
Inspector Comment						
FS_ID:51775						
DS_ID:17487						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 4/20/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- A Freitag)11/1/2016 Abandoned.(DWR Sutter Yard- A Freitag)6/3/2016 Abandoned crossing.4/2/2015 Same as last inspection. Slide Gate WS not found. An abandoned pump and steel pipe found on WS. A 6 ft x 8 ft concrete distribution box with a CMP found on LS. Box filled with soil. An abandoned crossing.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.						
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, invert 21.7 feet below the crown.						
Abandoned pump and steel pipe found on the waterside (WS). 6 foot by 8 foot concrete distribution box with the 36-inch corrugated metal pipe found on the landside (LS). [Additional Reference(s): USACE Sacramento O&M Manual 136, March 1960 (HLM 19.61)].						
FS Date: 5/1/2017 10:56:50 AM						

Photo 3 of 3 : UCIP_FA_2018_51775_47453.jpg



Waterside view: abandoned and ruined pipe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	19.97	Rating **	M	Issue No.	195
LM End	19.97	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.380501 °	39.380501 °
				-121.993546 °	-121.993546 °
DWR ID	17370				

Comment Code

Inspector Comment

FS_ID:51776
DS_ID:17370
EP_NO: 9496
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- A Freitag) 11/1/2016 Abandoned. (DWR Sutter Yard- A Freitag) 6/3/2016 Abandoned crossing 4/2/2015 Same as last inspection. Only one pump found on WS. An abandoned surge box found on WS and pipe is grouted with cement. Two 16-inch steel pipe found on pump station along with two electrical conduits. A concrete distribution box found on LS with 20-inch CMP. Appears abandoned crossing. 7/2/2014 Same as last inspection. 12/19/2013 Same as last inspection. 7/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 20-inch corrugated metal irrigation pipe through the levee, 19.8 feet below the crown. (Not 24-inch pipe, as stated in the O&M Manual, Automatic Board Order, and Levee Log). Two vertical pumps on a pile structure on the waterside (WS) bank (one pump found in 2015). Slide gate in a concrete surge box on the waterside (WS) berm. Discharges into a concrete distribution box on the landside (LS) across the county road. Switch board on the platform on the WS bank. (Automatic Board Order (ABO) issued as Permit No. 9496, 1974 - Womble). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 20.05)].
FS Date: 5/1/2017 10:57:25 AM

LM Start	19.97	Rating **	M	Issue No.	195 (cont)
LM End	19.97	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_51776_47459.jpg



Waterside view: overview

Photo 2 of 3 : UCIP_FA_2018_51776_47457.jpg



Waterside view: gate riser with slide gate

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/10/2018 10/10/2018	Bob Duffey

LM Start	19.97	Rating **	M	Issue No.	195 (cont)
LM End	19.97	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.380501 °	39.380501 °
				-121.993546 °	-121.993546 °
DWR ID	17370				

Comment Code

Inspector Comment

FS_ID:51776
DS_ID:17370
EP_NO: 9496
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- A Freitag) 11/1/2016 Abandoned. (DWR Sutter Yard- A Freitag) 6/3/2016 Abandoned crossing 4/2/2015 Same as last inspection. Only one pump found on WS. An abandoned surge box found on WS and pipe is grouted with cement. Two 16-inch steel pipe found on pump station along with two electrical conduits. A concrete distribution box found on LS with 20-inch CMP. Appears abandoned crossing. 7/2/2014 Same as last inspection. 12/19/2013 Same as last inspection. 7/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 20-inch corrugated metal irrigation pipe through the levee, 19.8 feet below the crown. (Not 24-inch pipe, as stated in the O&M Manual, Automatic Board Order, and Levee Log). Two vertical pumps on a pile structure on the waterside (WS) bank (one pump found in 2015). Slide gate in a concrete surge box on the waterside (WS) berm. Discharges into a concrete distribution box on the landside (LS) across the county road. Switch board on the platform on the WS bank. (Automatic Board Order (ABO) issued as Permit No. 9496, 1974 - Womble). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 20.05)].
FS Date: 5/1/2017 10:57:25 AM

Photo 3 of 3 : UCIP_FA_2018_51776_47456.jpg



Waterside view: abandoned pipe with cement grouting

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2018 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 02 Colusa Bypass			Right	2.20
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/7/2018 - 3/7/2018		10/25/2018 - 10/25/2018	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Bryan Reniff Sutter Maintenance Yard		Bryan Reniff Sutter Maintenance Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Colusa Bypass	Right	2.20	10/25/2018 10/25/2018	Bob Duffey

LM Start	0.02	Rating **	M	Issue No.	1
LM End	0.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.232058 °	39.232058 °
				-121.995514 °	-121.995514 °
DWR ID	DWR_ST0003_02_s_2012_1				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	0.37	Rating **	A	Issue No.	3
LM End	0.37	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.231415 °	39.231415 °
				-121.989060 °	-121.989060 °
DWR ID	DWR_ST0003_02_f_2018_3				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The vegetation was burned off of both slopes.					

Photo 1 of 1 : FA_2018_ST0003_265_3_20181102_00004.jpg



View of no vegetation on both slopes.

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Colusa Bypass	Right	2.20	10/25/2018 10/25/2018	Bob Duffey

LM Start	1.20	Rating **	M	Issue No.	12	
LM End	1.20	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.229526°	39.229526°	
				-121.975686°	-121.975686°	
DWR ID	17531					
Comment Code						
Inspector Comment						
FS_ID:49161 DS_ID:17531 EP_NO: 13534 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 6/3/2016 Crossing appears to be in good condition.4/6/2015 Same as last inspection. May need to add more substantial gasoline markers.7/7/2014 Same as last inspection.12/19/2013 Same as last inspection.7/22/2013 Same as last inspection. FIELD_STRUCT_DESC: 2.5-inch asphalt coated steel gas pipeline through the levee, 2.5 feet below the crown. A gas line marker found on the landside (LS). (Permit No. 13534, 1982 - Texaco, Incorporated). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 6/16/2016 10:00:15 AM						

LM Start	1.20	Rating **	M	Issue No.	12 (cont)
LM End	1.20	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_49161_47480.jpg



Landside view: overview gasoline indicator

Photo 2 of 3 : UCIP_FA_2018_49161_47479.jpg



Landside view: overview gasoline indicator

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Colusa Bypass	Right	2.20	10/25/2018 10/25/2018	Bob Duffey

LM Start	1.20	Rating **	M	Issue No.	12 (cont)	
LM End	1.20	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.229526°	39.229526°	
				-121.975686°	-121.975686°	
DWR ID	17531					
Comment Code						
Inspector Comment						
FS_ID:49161 DS_ID:17531 EP_NO: 13534 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 6/3/2016 Crossing appears to be in good condition.4/6/2015 Same as last inspection. May need to add more substantial gasoline markers.7/7/2014 Same as last inspection.12/19/2013 Same as last inspection.7/22/2013 Same as last inspection. FIELD_STRUCT_DESC: 2.5-inch asphalt coated steel gas pipeline through the levee, 2.5 feet below the crown. A gas line marker found on the landside (LS). (Permit No. 13534, 1982 - Texaco, Incorporated). [Additional Reference(s): DWR Levee Log, 2002]. FS Date: 6/16/2016 10:00:15 AM						

Photo 3 of 3 : UCIP_FA_2018_49161_47478.jpg



Landside view: gasline indicator

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2018 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 03 Colusa Bypass			Left	2.29
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/13/2018 - 3/13/2018		10/25/2018 - 10/25/2018	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Bryan Reniff Sutter Maintenance Yard		Bryan Reniff Sutter Maintenance Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Colusa Bypass	Left	2.29	10/25/2018 10/25/2018	Bob Duffey

LM Start	0.67	Rating **	A	Issue No.	1
LM End	0.67	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.237682 °	39.237682 °
				-121.981938 °	-121.981938 °
DWR ID	DWR_ST0003_03_f_2018_1				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The vegetation was burned off of both slopes.					

Photo 1 of 1 : FA_2018_ST0003_266_1_20181102_00002.jpg



View of no vegetation on both slopes.

LM Start	1.94	Rating **	M	Issue No.	10
LM End	1.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.244888 °	39.244888 °
				-121.965595 °	-121.965595 °
DWR ID	DWR_ST0003_03_s _ 2012_10				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	2.13	Rating **	M	Issue No.	2
LM End	2.13	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.244925 °	39.244925 °
				-121.962072 °	-121.962072 °
DWR ID	DWR_ST0003_03_s_2015_2				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2018 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 04 Moulton Bypass			Right	0.30
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	4/19/2018 - 4/19/2018		10/10/2018 - 10/10/2018	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Bryan Reniff Sutter Maintenance Yard		Bryan Reniff Sutter Maintenance Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

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The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Moulton Bypass	Right	0.30	10/10/2018 10/10/2018	Bob Duffey

LM Start	0.10	Rating **	A	Issue No.	1
LM End	0.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.337763 °	39.337763 °
				-122.020342 °	-122.020342 °
DWR ID	DWR_ST0003_04_f_2018_1				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The vegetation has been removed from both slopes.					

Photo 1 of 1 : FA_2018_ST0003_267_1_20181105_00001.jpg



View of no vegetation on both slopes.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2018 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 05 Moulton Bypass			Left	2.19
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	4/19/2018 - 4/19/2018		10/10/2018 - 10/10/2018	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Bryan Reniff Sutter Maintenance Yard		Bryan Reniff Sutter Maintenance Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

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The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Moulton Bypass	Left	2.19	10/10/2018 10/10/2018	Bob Duffey

LM Start	0.35	Rating **	A	Issue No.	2
LM End	0.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.343242 °	39.343242 °
				-122.016578 °	-122.016578 °
DWR ID	DWR_ST0003_05_f_2018_2				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The vegetation has been removed from both slopes.					

Photo 1 of 1 : FA_2018_ST0003_268_2_20181105_00003.jpg



View of no vegetation on both slopes.

LM Start	0.71	Rating **	M	Issue No.	5
LM End	0.71	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.341167 °	39.341167 °
				-122.010412 °	-122.010412 °
DWR ID	DWR_ST0003_05_s_2018_5				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the waterside toe.					

Photo 1 of 1 : FA_2018_ST0003_268_5_20180905_00002.jpg



View of the prunings along the waterside toe.

LM Start	1.59	Rating **	M	Issue No.	1
LM End	2.18	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.335953 °	39.336852 °
				-121.995807 °	-121.984934 °
DWR ID	DWR_ST0003_05_s_2016_1				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 1 : FA_2018_ST0003_268_1_20180905_00001.jpg



View of the fence obstructing access.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement